DR. EVELYN E. GAISER

George M. Barley, Jr. Eminent Scholars Chair, Institute of Environment
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EDUCATION

1997 Ph.D. University of Georgia, Athens, Georgia, Institute of Ecology
1991 M.S. Iowa State University, Ames, Iowa, Department of Animal Ecology
1989 B.S. Kent State University, Kent, Ohio, Department of Biology

ACADEMIC AND PROFESSIONAL APPOINTMENTS

2021-present Distinguished University Professor, Department of Biological Sciences, Florida International University, Miami, FL
2018-present George M. Barley, Jr. Eminent Scholars Chair, Institute of Environment, Florida International University, Miami, FL
2014 – 2018 Executive Director, School of Environment, Arts and Society and Associate Dean, College of Arts, Sciences and Education, Florida International University, Miami, FL
2012-2021 Professor, Department of Biological Sciences, Florida International University, Miami, FL
2006-2012 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
1997-2001 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
1987-1988 Research Technician, Ohio Agricultural Research and Development Center, Ohio State University, Wooster, OH

ADMINISTRATIVE SERVICE AT FLORIDA INTERNATIONAL UNIVERSITY

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

SCIENTIFIC PUBLICATIONS (* indicates student or post-doc author under my supervision)

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

120. Shannon*, T. & E. Gaiser. 2026. Integrating and assessing metacommunity drivers of ecosystem function and resilience in benthic algal systems. Oikos. In Press.
119. Figary, S.E, M.F. Meyer, R.M. Pilla, W.J.S. Currie, ...E.E. **Gaiser** et al. 2026. The Zooplankton International Geospatial (ZIG) dataset: A global repository of spatiotemporal freshwater community composition data from lakes and reservoirs to support ecological research. Limnology & Oceanograph Letters. In Press.
118. Kleindl*, P., A. Wachnicka, J. Sah, M. Ross, & E. E. **Gaiser**. 2025. Hydrology drives facilitative and competitive strategies in freshwater macrophytes and microbial communities. Ecosphere. 16: https://doi.org/10.1002/ecs2.70384
117. Solomon*, K.J., R.J. Stevenson, D. Surratt, K.R.T. Whelan, F.A.C. Tobias, K.M. Johnson*, & E.E. **Gaiser**. 2025. Robust species-optima estimates from non-uniformly sampled environmental gradients. Journal of Paleolimnology. https://doi.org/10.1007/s10933-025-00354-2.
116. Hormiga*, S., E.E. **Gaiser**, M.S. Ross, J.W. Fourqurean, & R. Vidales. 2025. Carbonate sediment production in coastal wetlands: Periphyton contributions and diatom indicators. Ecological Indicators. 171: https://doi.org/10.1016/j.ecolind.2025.113205
115. Julian, P. II, J. Fourqurean, S. Davis, D. Surratt, E.E. **Gaiser**, J.S. Kominoski, T.G. Troxler, J.N. Boyer, S. Thomas, H.O. Briceño, C. Madden, E. Montes, & C.R. Kelble. 2024. Long-term patterns and trends in water column biogeochemistry in a changing environment. Estuary, Coastal, and Shelf Science. 306: https://doi.org/10.1016/j.ecss.2024.108896
114. Nocentini, A., J. Redwine, E.E. **Gaiser**, T. Hill, S. Hoffman, J.S. Kominoski, J. Sah, D. Shinde, & D. Surratt. 2024. Rehydration of degraded wetlands: understanding drivers of vegetation community trajectories. Ecosphere 15: https://doi.org/10.1002/ecs2.4813
113. Johnson*, K.M., E.E. **Gaiser**, & K.M. Manoylov. 2023. Diatom voucher flora and comparison of collection and taxonomic methods for biodiversity hotspot Upper Three Runs Creek. Water. 15:2578. https://doi.org/10.3390/w15142578.
112. Emery Boeck*, M., E.E. **Gaiser**, H. M. Swain, M. Brenner, J. H. Curtis, and W. F. Kenney. 2023. Cyclical browning in a subtropical lake inferred from diatom records. Frontiers in Ecology and Evolution 11. https://doi.org/10.3389/fevo.2023.1020024.
111. Zhao, J., S. Chakrabarti, R. Chambers, P. Weisenhorn, R. Travieso, S. Stumpf, E. Standen, H. Briceño, 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.
106. 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.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
86. 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
85. 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
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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
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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
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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

Solomon, K.J., R.J. Stevenson, D. Surratt, K.R. Whelan, F.A. Tobias, K.M. Johnson, and E.E. Gaiser. 2025. Diatom composition and environmental data from the Greater Everglades, Florida, USA (2013-2020) ver 2. Environmental Data Initiative. https://doi.org/10.6073/pasta/3ed2c57c99b5b866a9ba2090f0d55aa4 (Accessed 2025-02-20).

Gaiser, E., H. Swain, M. Emery Boeck, M. Brenner, J. Curtis, & W. Kenney. Lake Annie Diatom Dataset. Neotoma Dataset 55915. DOI: 10.21233/VES5-3E24

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 theComprehensive 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 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 LECTURES AND PLENARY PRESENTATIONS

Gaiser, E. 2025. Invited Keynote Address. Rehabilitating oligotrophic ecosystems and the long tail/tale of nutrient enrichment legacies. Annual Meeting of the Florida Lake Management Society. Duck Key, FL.

Gaiser, E. 2025. Invited Plenary: Said the alligator to the diatom: will the past last? Department of Biological Sciences Graduate Student Symposium. Florida International University, Miami, FL.
Gaiser, E. 2025. Invited Panelist: Bright List Places Podcast. Climate Café Lecture Series. University of Miami, Miami, FL.
Gaiser, E. 2024. Invited Plenary: Thirty-six years of thinking like a diatom: the power of persistent attachments. North American Diatom Symposium. Iowa Lakeside Laboratory. Milford, IA.
Gaiser, E. 2024. Invited Lecture: Mats matter: the social-ecological role of benthic microbial communities in wetlands. Department of Environmental Studies. Florida State University. Tallahassee, FL.
Gaiser, E. 2023. Invited Plenary: Battling climate change in Florida: long-term studies reveal the social-ecological urgency of freshwater restoration. Annual Meeting of the Florida Academy of Science, Engineering, & Medicine of Florida. Orlando, FL.
Gaiser, E. 2023. Invited Lecture: Pulsing dynamics and the development of coastal ecosystems facing sea-level rise. Stockholm University, Stockholm, Sweden.
Gaiser, E. 2023. Invited Lecture: Orientation to the Long Term Ecological Research Network. Virtual meeting of the Long Term Ecological Research Network.
Gaiser, E. 2023. Invited Lecture: Unusual features of the Everglades: Signals of restoration success from its smallest creatures. Florida Gulf Coast University Seminar. Ft. Myers, FL.
Gaiser, E. 2022. Invited Panelist: Sea level rise, peat soils, and the future of the Everglades. Everglades Coalition Conference. Duck Key, FL.
Gaiser, E. 2021. Invited Panelist: 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. 2021. Invited Plenary: Pulsing dynamics and the development of coastal ecosystems facing sea-level rise. Society of Wetland Scientists. Virtual Annual Meeting.
Gaiser, E. 2020. Invited Plenary: Long-term trends in Everglades National Park. Everglades Coalition. Captiva, FL.
Gaiser, E. 2019. Invited Plenary: Climate change fortunes from plants in glass houses. Annual Meeting of the Phycological Society of America. Ft. Lauderdale, FL.
Gaiser, E. 2019. Invited Lecture: Foundation species in benthic microbial systems. Foundation Species Distributed Graduate Seminar. LTER Cross-Site Symposium.
Gaiser, E. 2019. Invited Plenary: The Wonderful Wizard of Wind. Greater Everglades Ecosystem Restoration Conference. Coral Springs, FL.
Gaiser, E. 2018. Invited Plenary: Surface tensions: Harnessing the connecting power of water for a sustainable future. Association for the Science of Limnology and Oceanography. Victoria, BC.
Gaiser, E. 2018. Invited Lecture: Effects of water management on periphyton dynamics along the boundary of Everglades National Park. South Florida Natural Resource Center. Homestead, FL.
Gaiser, E. 2018. Invited Plenary: Cooperation during booms and busts: ingredients for dynamic development in ecology. Odum School of Ecology 50th Alumni Reunion. University of Georgia. Athens, GA.
Gaiser, E. 2018. Invited Lecture. Hurricanes as Resilience Builders. National Science Foundation LTER Symposium. Washington, DC.
Gaiser, E. 2017. Invited Lecture. Progress in long-term, networked science for society: Perspectives from the small. National Science Foundation. Arlington, VA.
Gaiser, E. 2016. Invited Lecture: Sea Level Solutions Center: A catalyst for integrating natural sciences into urban planning. FIU Sea Level Solutions Center Public Launch. Miami, Florida.

Gaiser, E. 2016. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Everglades Research Center. Florida Gulf Coast University, Naples, Florida.
Gaiser, E. 2015. Invited Lecture: Advancing limnological theory through the Global Lakes Ecological Observatory Network. Iowa Lakeside Laboratory. Milford, Iowa.
Gaiser, E. 2015. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Cary Institute for Ecosystem Studies. Millbrook, New York.
Gaiser, E. 2014. Invited Plenary: Biodiversity resilience in a changing world: the importance of little glass canaries in coal mines. International Diatom Symposium. Nanjing, China.
Gaiser, E. 2013. Invited Plenary: Understanding an iconic landscape through comparative international long-term ecological research. Annual Meeting of the International Long-Term Ecological Research Network. Seoul, Korea.
Gaiser, E. 2013. Invited Lecture: Unraveling the biogeography of karstic wetland diatoms from Canada to the tropics. Iowa Lakeside Laboratory. Milford, IA.
Gaiser, E. 2012. Invited Lecture: Sensor deployment and operations. Organization for Biological Field Stations Meeting. Archbold Biological Station. Lake Placid, FL.
Gaiser, E. 2012. Invited Lecture: Evidence for multi-decadal climate controls on South Florida Ecosystems. Department of Paleoecology. Utrecht University. Utrecht, The Netherlands.
Gaiser, E. 2012. Invited Lecture: Florida Coastal Everglades Long-Term Ecological Research Program. Department of Biological Sciences, Western Kentucky University. Bowling Green, KY.
Gaiser, E. 2012. Invited Lecture: Expecting the unexpected: Paradox in an upside-down estuary. Department of Ecology, Evolution and Organismal Biology. Iowa State University. Ames, Iowa.
Gaiser, E. 2011. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Biological Sciences, Florida International University, Miami, FL.
Gaiser, E. 2011. Invited Lecture: Legacies and scenarios of socio-ecological change in a novel, vulnerable landscape. Department of Biological Sciences, Kent State University, Kent, Ohio.
Gaiser, E. 2011. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Biological Sciences, University of Miami, Miami, FL.
Gaiser, E. 2011. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Ecology and Environmental Sciences. Umeå Universitet, Umeå, Sweden.
Gaiser, E. 2011. Invited Lecture: Florida Coastal Everglades Long Term Ecological Research. Finnish Environment Institute, Helsinki, Finland.
Gaiser, E. 2011. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Biological Sciences, Cleveland State University, Cleveland, Ohio.
Gaiser, E. 2010. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Environmental Studies, Utrecht University, Utrecht, Netherlands.
Gaiser, E. 2010. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Biology, Utrecht University, Utrecht, Netherlands.
Gaiser, E. 2010. Invited Lecture: Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. University of Michigan Biological Station, Douglas Lake, Michigan.
Gaiser, E. 2010. Invited Lecture: 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. Invited Lecture: Pandora's box of paradox: expecting the unexpected in an upside-down estuary. University of Florida, Gainesville, Florida.

Gaiser, E. 2009. Invited Lecture: Pandora's box of paradox: expecting the unexpected in an upside-down estuary. Ave Maria University. Ave Maria, Florida.
Gaiser, E. 2009. Invited Lecture: Effects of hurricanes on state changes in the Florida Everglades. Caribbean Hurricane Research Network meeting. Merida, Mexico.
Gaiser, E. 2009. Invited Plenary: 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.
Gaiser, E. 2009. Invited Lecture: Florida Coastal Everglades Long-Term Ecological Research program. LTER Network Graduate Education Course. University of Georgia, Athens, GA.
Gaiser, E. 2006. Invited Lecture: Ecological research in the FIU Department of Biology. FIU-Universidad Nacional Autónoma de México Marine Sciences Meeting. Merida, Yucatan, Mexico.
Gaiser, E. 2005. Invited Lecture: 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. 2004. Invited Lecture: Establishing a phosphorus criterion to protect the Everglades: cascading ecological imbalances suggest a critical minimum standard. Harvard Forest, Harvard University, Petersham, MA.
Gaiser, E. 2004. Invited Lecture: Establishing a phosphorus criterion to protect the Everglades: cascading ecological imbalances suggest a critical minimum standard. University of Georgia, Athens, GA.
Gaiser, E. 2003. Invited Lecture: 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. 2003. Invited Lecture: 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. 2003. Invited Lecture: 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. 2001. Invited Lecture: 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. 2025. Site news: updates on the new multiparameter profiling buoy from subtropical, monomictic, Lake Annie, FL. Annual Meeting of the Global Lake Ecological Observatory Network. North Sumatra, Indonesia.
Gaiser, E., P. Kleindl, & T. Fish. 2024. Enacting long-term ecological research through federal agency partnerships. Annual Meeting of the Ecological Society of America. Long Beach, CA.
Gaiser, E., J. Kominoski, & T. Troxler. 2023. Long term increases in phosphorus pulses in an oligotrophic wetland undergoing restoration. Annual Freshwater Sciences Meeting. Brisbane, Australia.
Gaiser, E., J. Kominoski, and T. Troxler. 2023. Long-term dynamics of phosphorus pulses and their legacies in the Florida Coastal Everglades. Greater Everglades Ecosystem Restoration conference. Coral Springs, FL.

Gaiser, E., P. Kleindl, and T. Fish. 2022. 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. 2022. 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.

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

Gaiser, E. 2022. Abiotic resources and stressors. Florida Coastal Everglades Long Term Ecological Research Program All Scientists Meeting. Fairchild Tropical Botanic Garden. Miami, FL.

Gaiser, E. 2022. Justice, Equity, Diversity, & Inclusion. Florida Coastal Everglades Long Term Ecological Research Program All Scientists Meeting. Fairchild Tropical Botanic Garden. Miami, FL.

Gaiser, E. 2021. Lakeridge lake water quality. Lakeridge Community Meeting. Miami, FL.

Gaiser, E. 2021. Pulsing dynamics and the development of coastal ecosystems facing sea-level rise. Department of Biological, Geological, and Environmental Sciences. Cleveland State University. Cleveland, OH.

Gaiser, E., J. Trexler, J. Kline, F. Tobias, & R. Travieso. 2021. 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.

Gaiser, E. 2021. 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. 2021. Long-term studies of calcareous benthic diatom assemblages in the Florida Everglades. Diatom Web Academy. Virtual presentation.

Gaiser, E. 2021. Biodiversity patterns in the unusual benthic diatom communities of karstic Caribbean wetlands. Virtual presentation to the Caribbean Biodiversity course. Florida International University.

Gaiser, E., J. Trexler, J. Kline, F. Tobias, & R. Travieso. 2021. Long-term dynamics of periphyton along the eastern boundary of Everglades National Park. South Florida Natural Resource Center. Virtual Presentation.

Gaiser, E. 2021. The state of the Everglades from tiny glass houses. Virtual presentation to the Doctor of Design Program. Florida International University.

Gaiser, E., J. Trexler, J. Kline, F. Tobias, & R. Travieso. 2020. Long-term dynamics of periphyton along the Eastern boundary of Everglades National Park. South Florida Natural Resource Center Seminar Series. Homestead, FL.

Gaiser, E. 2020. Diatom sentinels ensure clean freshwater supplies in a threatened coastal wetland. Western Kentucky University. Bowling Green, KY.

Gaiser, E., V. Mazzei, L. Marazzi, & E. Massa. 2019. Comparing three methods for determining phosphorus thresholds for Everglades diatoms. North American Diatom Symposium. Eatonton, GA.

Gaiser, E., E. Castaneda-Moya, J. Kominoski, J. Rehage, T. Troxler, & K. Zhang. 2019. Hurricanes interact with disturbance legacies to effect ecosystem resilience. Annual Meeting of the Ecological Society of America. Louisville, KY.

Gaiser, E. 2018. Research updates from the GLEON theory group. Global Lakes Ecological Observatory Network Annual Meeting. Rottnest Island, Australia.

Gaiser, E., T. Crowl, J. Kominoski, N. Oehm, N. Ogle, D. Ogurcak, B. Schonhoff, & R. Teutonico. 2018. Experiential learning in subtropical ecology at the urban-wildland interface. Ecological Society of America Meeting. New Orleans, LA.

Gaiser, E. & B. Ibelings. 2018. Research updates from the GLEON theory group. Global Lakes Ecological Observatory Network Annual Meeting. Mohonk Lake, NY.

Gaiser, E. 2017. The role of core species in regulating diatom network assembly. North American Diatom Symposium. South Bass Island, Ohio.

Gaiser, E., I. Corsi, E. Nodine, & H. Swain. 2017. 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. 2017. Water quality implications of hydrologic restoration alternatives in the Florida Everglades: A periphyton perspective. Greater Everglades Ecosystem Restoration Conference. Coral Springs, FL.

Gaiser, E. 2016. Combining paleoecological, observational, and high-frequency information sources to improve predictions of ecosystem resilience. National Conference on Ecosystem Restoration. Coral Springs, Florida.

Gaiser, E. 2015. Periphyton responses to flow restoration: distribution, community composition, and edibility. Greater Everglades Ecosystem Restoration Conference. Coral Springs, Florida.

Gaiser, E. 2014. 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. 2014. Research updates from the GLEON theory group. Global Lakes Ecological Observatory Network Annual Meeting. Orford, Quebec.

Gaiser, E. 2014. Establishing ecological targets in ecosystems with cascading threshold responses to nutrient pollution. Joint Aquatic Sciences Meeting. Portland, OR.

Gaiser, E. 2014. Advancing limnological theory through the Global Lakes Ecological Observatory Network. Southeast Environmental Research Center Brown Bag Seminar. Miami, FL.

Gaiser, E. 2013. Linking high-resolution datasets to phytoplankton community change. Annual Meeting of the Global Lakes Ecological Observatory Network. Bahia Blanca, Argentina.

Gaiser, E. 2013. Understanding an iconic landscape through comparative international long-term ecological research. LTER Science Council Meeting. Las Cruces, NM.

Gaiser, E. 2013. 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. 2013. 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. 2013. 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. 2012. Ecosystem-wide assessment of Everglades restoration using periphyton. International Association for Ecology Wetlands Conference. Orlando, FL.

Gaiser, E. 2011. Update of the GLEON Limnological Theory group. Global Lake Ecological Observatory Network Annual Meeting. Lake Sunapee, NH.

Gaiser, E. 2011. 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. 2011. 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. 2011. 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. 2011. 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. 2010. 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. 2010. Regulation of oligotrophy by periphyton in karstic wetlands. Annual Meeting of the American Society of Limnology and Oceanography, Santa Fe, NM.

Gaiser, E. 2009. Method development on calculating water column stability from high resolution thermal data. Global Lake Ecological Observatory Network meeting. Hamilton, New Zealand.

Gaiser, E. 2009. *Mastogloia smithii* Thwaites *ex* Wm. Smith: A structural engineer of calcareous mats in karstic subtropical wetlands. North American Diatom Symposium. Milford, IA.

Gaiser, E. 2009. 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. 2009. 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. 2009. Factors governing composition and production of freshwater stromatolitic mats in subtropical calcareous wetlands of the Caribbean. Albuquerque, NM.

Gaiser, E. & H. Swain. 2008. 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. 2008. 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. 2008. 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. 2008. Landscape-scale patterns of periphyton abundance and composition in the Florida Everglades. Greater Everglades Ecosystem Restoration Conference. Naples, FL.

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

Gaiser, E., N. Deyrup, R. Bachmann, L. Battoe & H. Swain. 2008. 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.

Gaiser, E. & H. Swain. 2008. Deployment of continuous monitoring sensors on Lake Annie, FL. Global Lake Ecological Observatory Network meeting. Archbold Biological Station, FL.

Gaiser, E. & J. La Hée. 2007. Taxonomic and morphological variability in diatoms endemic to modern stromatolitic microbial mats of Caribbean wetlands. North American Diatom Symposium. Pellston, MI.

Gaiser, E., N. Deyrup, R. Bachmann, L. Battoe & H. Swain. 2007. 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.

Gaiser, E. 2007. 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.

Gaiser, E. & S. Thomas. 2007. Freshwater periphyton communities in the Greater Everglades: modeling responses to hydrology and water quality. National Conference on Ecosystem Restoration. Kansas City, MO.

Gaiser, E. & D. Childers. 2007. State of the Program report. Florida Coastal Everglades Long-Term Ecological Research program Annual All Scientists Meeting. Miami, FL.

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.

Gaiser, E. 2007. 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.

Gaiser, E., N. Deyrup, R. Bachmann, L. Battoe & H. Swain. 2007. 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.

Gaiser, E. 2006. Why is periphyton so abundant in the Everglades? Florida Ecology and Evolution Society Annual Meeting. Archbold Biological Station, FL.

Gaiser, E., R. Bachmann, N. Deyrup, L. Battoe & H. Swain. 2006. A 20-year limnological dataset from Lake Annie, FL. Archbold Biological Station, Lake Placid, FL.

Gaiser, E., D. Iwaniec, T. Frankovich, S. Thomas & S. Ewe. 2006. Benthic algal productivity in the Florida Coastal Everglades. Long-Term Ecological Research Program All Scientists Meeting. Estes Park, CO.

Gaiser, E., N. Deyrup, R. Bachmann, L. Battoe & H. Swain. 2006. 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.

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

Gaiser, E., A. Zafiris, P. Ruiz, F. Tobias & M. Ross. 2006. Tracking rates of salt-water encroachment using fossil mollusks in coastal south Florida. Florida Bay and Adjacent Marine Systems Science Conference. Duck Key, FL.

Gaiser, E. 2005. Marine benthic diatoms of Bocas Del Toro, Panama. 18th North American Diatom Symposium. Mobile, AL.

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.

Gaiser, E. 2005. Periphyton in the Everglades marl prairie. Cape Sable Seaside Sparrow Symposium. Everglades National Park, FL.

Gaiser, E. 2005. Tracking rates of ecotone migration due to saltwater encroachment in the Biscayne Bay Coastal Wetlands. CERP Biscayne Bay AAT RECOVER Workshop. Boca Raton, FL.

Gaiser, E. 2004. Cascading ecological effects of low-level phosphorus enrichment and abatement in the Florida Everglades. National Conference on Ecosystem Restoration. Orlando, FL.

Gaiser, E., A. Zafiris & M. Ross. 2004. 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.

Gaiser, E., A. Wachnicka, A. Zafiris, P. Ruiz & M. Ross. 2003. Paleoecological determination of effects of saltwater encroachment on community migration in coastal South Florida wetlands. Ecological Society of America. Annual Meeting. Savannah, GA.

Gaiser, E., A. Edwards, K. Jayachandran, R. Jones, D. Lee, T. Philippi, J. Richards, L. Scinto & J. Trexler. 2003. Experimental phosphorus enrichment in Everglades National Park: I. Approach and Methods. Greater Everglades Ecosystem Restoration Science Conference. Tampa Bay, FL.

Gaiser, E., D. Childers, K. Jayachandran, R. Jones, D. Lee, G. Noe, T. Philippi, J. Richards, L. Scinto & J. Trexler. 2003. 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.

Gaiser, E. & M. Ross. 2002. Water flow through coastal wetlands. Biscayne Bay Coastal Wetlands Science Meeting. Miami, FL.

Gaiser, E. 2002. Using diatoms to create performance measures in Biscayne coastal wetlands. Biscayne Bay Coastal Wetlands Science Meeting. Miami, FL.

Gaiser, E., D. Childers & R. Jones. 2002. 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. 2001. *Gomphonema* of the Florida Everglades. National Water Quality Assessment Taxonomy Workshop. Academy of Natural Sciences, Philadelphia, PA.

Gaiser, E. & R. Jones. 2001. Predicting phosphorus from diatom species composition in the Everglades: effects of unstable phosphorus optima. 16th North American Diatom Symposium. Ely, MN.

Gaiser, E., M. Brooks, W. Kenney, C. Schelske & B. Taylor. 2001. 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.

Gaiser, E., L. Scinto, J. Richards, D. Childers, J. Trexler, K. Jayachandran & R. Jones. 2000. Nutrients sequestered in microbial mats reflect remote source water quality in Everglades National Park. Greater Everglades Ecosystem Restoration Science Conference. Naples, FL.

Gaiser, E., R. Jones & J. Stober. 2000. Using diatoms for risk assessment in the Everglades. Greater Everglades Ecosystem Restoration Science Conference. Naples, FL.

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.

Gaiser, E. & M. Ross. 1999.Diatom indicators of salt-water encroachment in South Florida coastal mangrove wetlands. 15th North American Diatom Symposium. Pingree Park, CO.

Gaiser, E., J. Richards and R. Jones. 1999. Effects of low-level phosphorus enrichment on Everglades periphyton. Ecological Society of America. Annual Meeting. Spokane, WA.

Gaiser, E., M. Ross, J. Meeder & M. Lewin. 1999. Multi-taxon analysis of the "white zone", a common ecotonal feature of South Florida coastal wetlands. Florida Bay Ecosystem Science Conference. Key Largo, FL.

Gaiser, E., S. DeCelles & J. Richards. 1999. Seasonality and succession of periphyton communities in Everglades National Park, Florida. American Society of Limnology and Oceanography. Annual Meeting. Santa Fe, NM.

Gaiser, E. 1997. Paleolimnological Reconstruction of Holocene Environments in Wetland Ponds of the Upper Atlantic Coastal Plain using Siliceous Microfossils. 14th North American Diatom Symposium. Pellston, MI.

Gaiser, E. 1997. 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

Gaiser, E. & B. Taylor. 1996. 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.

Gaiser, E. & B. Taylor. 1996. 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.

Gaiser, E. 1995. Distribution of diatoms along hydrologic gradients within and among Carolina bays of the Upper Atlantic Coastal Plain. 17th Southeastern Phycological Colloquy. Charleston, SC.

Gaiser, E. & B. Taylor. 1995. 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.

Gaiser, E. & B. Taylor. 1995. Paleolimnological reconstruction of Holocene environments in wetland ponds of the Upper Atlantic Coastal Plain. Ecological Society of America. Annual Meeting. Snowbird, UT.

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

Gaiser, E. & R. Bachmann. 1993. Seasonality and taxonomy of epizoic diatoms on planktonic cladocerans in three Iowa lakes. Ecological Society of America. Annual Meeting. Madison, WI.

Gaiser, E. 1993. Holocene diatoms of Carolina Bay wetlands. American Society of Limnology and Oceanography and the Society of Wetland Scientists. Annual Meeting. Edmonton, Alberta, Canada.

Gaiser, E. & R. Bachmann. 1991. 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

Gaiser, E. (PI) & N. Dorn. 2024-2027. Biogeochemical responses of periphyton, floc and fauna to flow, loading and Active Marsh Improvement in the Central Everglades Planning Process-South. South Florida Water Management District. $1,020,699. #4600005025.

Gaiser, E. (PI). 2025-2030. Monitoring periphyton in Northeast Shark River Slough to establish CEPP baseline conditions. U.S. Army Corps of Engineers. $608,200. W912HZ-24-2-0033.

Gaiser, E. (PI). 2022-2028. Aquifer storage and recovery periphyton assessment. South Florida Water Management District. $419,158. CA #4500135763, #4500142792, #4500150878, #4500157227.

Gaiser, E. (PI). 2022-2024. Establishing a protective phosphorus criterion for Big Cypress National Preserve. Department of Interior, National Park Service. $278,117. P22AC00276.

Gaiser, E. (PI). & M. Ross. 2017-2029. Vegetation and periphyton monitoring and vegetation mapping of the L-31E flow way and Cutler wetlands. South Florida Water Management District. $1,649,674. CA #460004610, #4600004511, #4600004370, #4600004171, #4600003666, #4500096915.

Gaiser, E. (PI) & N. Dorn. 2021-2024. Monitoring performance measures of the Broward County Water Preserve Areas. U.S. Army Corps of Engineers. $537,464. W912HZ2020018.

Gaiser, E. (PI) & N. Dorn. 2021-2026. Analyzing the impact of changing hydrological conditions along the boundary of Everglades National Park. Department of Interior, National Park Service. $1,139,919. P21AC10834.

Gaiser, E. (PI) & R. Gutierrez. 2021-2025. South Florida-Caribbean Cooperative Ecosystems Studies Unit. National Park Service, Department of Interior. $94,625. P21AC12003.

Gaiser, E. (PI). 2016-2025. Periphyton and vegetation monitoring for adaptive management of the Upper Taylor Slough (UTS) hydrological changes. South Florida Water Management District. $664,699. CA #4500129818, #4600003671.

Gaiser, E. (Funded PI in 2021), J. Fourqurean, K. Grove, J. Kominoski (PI 2021-2025), & J. Rehage. 2021-2025. FCE LTER IV: Coastal Oligotrophic Ecosystems Research and Education/Infrastructure Supplements. National Science Foundation. $4,959,800. DEB-2025954.

Gaiser, E. (PI), J. Fourqurean, K. Grove, J. Kominoski, & J. Rehage. 2018-2021. FCE LTER IV: Drivers of Abrupt Change in the Florida Coastal Everglades and Education/Infrastructure Supplements. National Science Foundation. $2,324,000. DEB-1832229.

Gaiser, E. (PI), J. Kominoski, E. Castaneda, T. Troxler, M. Heithaus, J. Rehage, & K. Zhang. 2017-2019. RAPID: Hurricane Irma: How do ecosystem perturbations interact to influence long-term resilience mechanisms? National Science Foundation. $178,159. DEB-1801244.

Gaiser, E. (PI), T. Troxler, & J. Kominoski. 2015-2020. Subaward from Arizona State University (C. Redman, N. Grimm): Urban Resilience to Extremes Sustainability Research Network. National Science Foundation. $623,320. SES-1444755.

Gaiser, E. (PI), R. Jaffe, M. Heithaus, L. Ogden & R. Price. 2012-2019. FCE LTER III: Coastal Oligotrophic Ecosystems Research and Education/Infrastructure Supplements. National Science Foundation. $6,100,000. DEB-1237517.

Gaiser E., (Lead PI 2007-2012), D. Childers (PI 2006), R. Jaffe, M. Heithaus, L. Ogden, & R. Price. 2006-2012. FCE LTER II: Coastal Oligotrophic Ecosystems Research and Educational/Infrastructure Supplements. National Science Foundation. $5,550,383.

Gaiser, E. (PI), J. Trexler, J. Richards, L. Scinto & A. Bramburger. 2010-2013. 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. Department of Interior, National Park Service. $366,000.

Gaiser, E. (PI), J. Trexler, J. Richards & L. Scinto. 2009-2010. Effects of Tamiami Trail swale creation on ecosystem structure and nutrient delivery to Everglades National Park. Department of Interior, National Park Service. $314,000.

Gaiser, E. (PI). 2008-2011. Developing periphyton-based hydrologic indicators for the Everglades marl prairie. Department of Interior, National Park Service. $90,000.

Gaiser, E. (PI), J. Trexler, L. Scinto & D. Childers. 2006-2008. Developing ecosystem response indicators to hydrologic and nutrient modifications in Northeast Shark River Slough, Everglades National Park. Department of the Interior, National Park Service. $407,261.

Gaiser, E. (PI), J. Trexler, L. Scinto and R. Price. 2005-2008. Phosphorus retention and sub-surface movement through the S-332 detention basins on the eastern boundary of Everglades National Park. Department of the Interior, National Park Service. $418,320.

Gaiser, E. (PI). 2004-2005**.** Analysis of algae of the Wekiva Spring drainage, FL. St. John's River Water Management District. $11,725.

Gaiser, E. (PI). 2004-2005**.** Diatom-based water quality performance metrics for Biscayne Bay. Department of Interior, National Park Service. $43,000.

Gaiser, E. (PI) & M. Ross. 2001-2004**.** Water flow through coastal wetlands. Department of the Interior, National Park Service. $195,000.

Gaiser, E. (PI). 2003-2004**.** Determine rates and biological consequences of salt-water encroachment in coastal wetlands in Biscayne National Park. Department of the Interior, National Park Service. $86,766.

Gaiser, E. (PI). 2003-2004**.** Water quality in Biscayne Bay. Diatom Component. United States Geological Survey. $12,000.

Gaiser, E. (PI), J. Trexler and J. Richards. 2003-2004**.** Linking hydrology to biological recovery after cessation of long-term phosphorus enrichment at the experimental dosing facility in Everglades National Park. Department of the Interior, National Park Service. $67,000.

Gaiser, E. (PI), Jones, R., D. Childers, J. Trexler, & J. Richards. 2002-2003**.** Numerical interpretation of Class III Nutrient Water Criteria for Everglades wetlands. Department of the Interior, National Park Service and the South Florida Water Management District. $560,000.

Gaiser, E. (PI). 2002-2005**.** Characterization of periphyton response to hydroperiod in marl prairie wetlands in the Everglades. Department of the Interior, National Park Service. $295,130.

GRANTS AS CO-PRINCIPAL INVESTIGATOR AT FLORIDA INTERNATIONAL UNIVERSITY

Solomon, K. & E. **Gaiser** (Co-PI, 50%). 2025-2027. Establishing a protective phosphorus target for the Western Everglades Restoration Project Region of the Big Cypress Preserve-Experiment. State of Florida Department of Environmental Protection. $314,875. OWP09.

Solomon, K. & E. **Gaiser** (Co-PI, 50%). 2025-2027. Establishing a protective phosphorus target for the Western Everglades Restoration Project Region of the Big Cypress Preserve-Experiment. Miccosukee Tribe of Indians. $600,000.

Solomon, K. & E. **Gaiser** (Co-PI, 50%). 2025-2027. Establishing a protective phosphorus target for the Western Everglades Restoration Project Region of the Big Cypress Preserve-Experiment. Department of Interior, National Park Service. $931,942.

Solomon, K. & E. **Gaiser** (Co-PI, 50%). 2025-2027. Establishing a protective phosphorus target for the Western Everglades Restoration Project Region of the Big Cypress Preserve-Experiment. Everglades Foundation. $105,000.

Solomon, K. & E. **Gaiser** (Co-PI, 50%). 2023-2025. Ecological assessment of the Picayune Strand. Earthology Consulting Services. $80,231.

Dorn, N. & E. **Gaiser** (Co-PI, 50%). 2021-2024. Wet season aquatic fauna and primary production in Florida Everglades. U.S. Army Corps of Engineers. $2,222,878. W9126-G-21-2-0047.

Kominoski, J., & E. **Gaiser** (Co-PI, 20%). 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. Department of Interior, National Park Service. $899,991.

Kominoski, J., E. **Gaiser** (Co-PI, 30%), J. Trexler, & L. Scinto. 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. Department of Interior, National Park Service. $578,492.

Trexler, J. & E. **Gaiser** (Co-PI, 50%). 2016-2020. Aquatic fauna and periphyton production data collection. U.S. Army Corps of Engineers. $1,784,907 CA#912HZ-20-2-0018.

Trexler, J. & E. **Gaiser** (Co-PI, 50%). 2016-2020. Monitoring performance measures of the Broward County Water Preserve Areas. U.S. Army Corps of Engineers. $134,366.

Troxler, T., F. Sklar, C. Coronado, E. **Gaiser** (Co-PI, 10%), J. Kominoski, S. Davis, C. Madden, S. Kelly, & J. Stachelek. 2014-2018. 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 Florida SeaGrant. $360,000.

Scinto, L., J. Trexler, J. Richards, & E. **Gaiser** (Co-PI, 50%). 2014-2019. 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. Department of Interior, National Park Service. $300,000.

Wachnicka A. & E. **Gaiser** (Co-PI, 50%). 2011-2013. History of ecological regime shifts in Biscayne Bay (Florida, USA) related to climate change and anthropogenic activities on the SE Florida mainland. U.S. Geological Survey. $70,000.

Trexler, J. & E. **Gaiser** (Co-PI, 50%). 2011-2015. Aquatic fauna and periphyton production data collection. U.S. Army Corps of Engineers. CA#912HZ-11-2-0048. $1,578,900.

Jaffé, R., E. **Gaiser** (Co-PI, 30%), & J. La Hée. 2010-2012. Post-doctoral Fellowship Grant: Causes and trends of enrichment in Upper Taylor Slough, Everglades National Park. Department of Interior, National Park Service. $90,000.

Hollander, G., L. Ogden, M. Ross, J. Heffernan, & E. **Gaiser** (Co-PI, 20%). 2009-2012. Double Exposures: Socio- ecological vulnerabilities in the Miami-Dade Urban Region. Urban Long-Term Research Exploratory Grant. National Science Foundation. $300,000.

Trexler, J. & E. **Gaiser** (Co-PI, 50%). 2008-2012. Aquatic fauna and periphyton production data collection. South Florida Water Management District. CA#4600001083. $650,705.

Richards, J., T. Philippi, J. Trexler, E. **Gaiser** (Co-PI, 10%), Y. Cai, L. Scinto and D. Childers. 2005-2008. Monitoring, modeling and assessment of the Everglades ecosystem: R-EMAP Phase III. U.S. Environmental Protection Agency. $90,536.

Anderson, W., E. **Gaiser** (Co-PI, 30%), & L. Scinto. 2004-2005. Lake Harney sediment accumulation and past water quality. St. John's River Water Management District. $98,000.

Trexler, J. & E. **Gaiser** (Co-PI, 50%). 2003-2008. Aquatic fauna and periphyton production data collection. South Florida Water Management District. CA#C-C040130. $1,135,064.

Anderson, W., E. **Gaiser** (Co-PI, 30%), L. Scinto. 2001-2004. Lake Monroe sediment accumulation and past water quality. St. John's River Water Management District. $131,610.

Jones, R., E. **Gaiser** (Co-PI, 50%), M. Gantar & L. Scinto. 2001-2003. Periphyton design and analysis for the C-51 (STA 1 – East) Project. U.S. Army Corps of Engineers. $792,000.

Jones, R., E. **Gaiser** (Co-PI, 50%), M. Gantar & L. Scinto. 2000-2002. Evaluation of the potential use of periphyton-dominated storm water treatment areas for phosphorus reduction in the southern Everglades. Department of the Interior, National Park Service. $580,000.

Jones, R., E. **Gaiser** (Co-PI, 50%), M. Gantar and L. Scinto. 1999-2001. Research integration of natural advanced treatment technologies. South Florida Water Management District. $570,000.

Meeder, J., M. Ross & E. **Gaiser** (Co-PI, 30%). 1999-2001. Southern Biscayne Bay watershed historical creek characterization. South Florida Water Management District. $74,000.

Childers, D., C. Buzzelli, E. **Gaiser** (Co-PI, 30%), R. Jones, J. Richards, L. Scinto and J. Trexler. 1998-1999. Using transect sampling to relate a phosphorus addition flume study to long-term water quality impacts in Everglades marshes. Department of the Interior, National Park Service. $241,000. ($120,000 to Co-PI Gaiser).

Jones, R. J. Trexler, D. Childers, D. Lee, J. Richards, K. Jayachandran, E. **Gaiser** (Co-PI, 40%), & L. Scinto. 1997-2002. Numerical interpretation of Class III narrative nutrient water quality criteria

for Everglades wetlands. Department of the Interior, National Park Service and the South Florida Water Management District. $4,600,000. (

GRANTS RECEIVED AS A GRADUATE STUDENT

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

GRANTS AND FELLOWSHIPS TO MENTORED STUDENTS

Innocent*, H., (M.S.). 2024. Becker Family Graduate Fellowship. Iowa Lakeside Laboratory. $250.
Innocent*, H. (M.S.). 2024. Glaser Water Fellowship. Glaser Water Fellowship Committee. $15,000.
Innocent, H. (M.S). 2024. North American Diatom Symposium Student Travel Award $250.
Hormiga, S. (M.S.). 2024. North American Diatom Symposium Student Travel Award $250.
Kleindl, P. (Ph.D). 2024 North American Diatom Symposium Student Travel Award $250.
Johnson, K. (Ph.D.). 2024. North American Diatom Symposium Student Travel Award $250.
Innocent, H. (M.S.). 2023. John Kingston Fellowship, Iowa Lakeside Laboratory. 2,000.
Innocent, H. (M.S.). 2023. William V. Storch Award AWRA. $2,000.
Kleindl, P. (Ph.D.). 2023. ForEverglades Fellowship, Everglades Foundation. $30,000.
Hormiga, S. (M.S.). 2023. John Kingston Fellowship, Iowa Lakeside Laboratory. $2,000.
Shannon, T. (Ph.D.). 2021. FIU ForEverglades Fellowship. $25,000.
Kleindl, P. (Ph.D.). 2021. Cristina Menendez Memorial Fellowship Award. $5,000.
Shannon, T. (Ph.D.). 2021. Cristina Menendez Memorial Fellowship Award. $5,000.
Stansbury, K. (M.S.). 2021. Cristina Menendez Memorial Fellowship Award. $4,500.
Emery, M. (M.S.). 2019. North American Diatom Symposium Student Travel Award $250.
Sullivan, K. (M.S.). 2019. North American Diatom Symposium Student Travel Award $250.
Emery, M. (M.S.). 2019. The Becker Family Graduate Research Fellowship. $3,000.
Emery, M. (M.S.). 2019. LacCore/CSDCO Visiting Graduate Student Program. $5,000.
Sullivan, K. (M.S.). 2018. Jane Goodall Endowed Scholarship. $500.
Massa, E. (M.S.). 2018. ForEverglades Fellowship, Everglades Foundation. $12,000.
Dominguez, K. (B.S.). 2017. Judith Parker Travel Scholarship. $500.
Dominguez, K. (B.S.). 2017. William V. Storch Award AWRA. $2,000.
Mazzei, V. (Ph.D.). 2017. FIU Dissertation Year Fellowship. $25,000.
Mazzei, V. (Ph.D.). 2016. ForEverglades Fellowship, Everglades Foundation. $20,000.
Mazzei, V. (Ph.D.). 2016. Student Government Association Scholarship. $500.

Nodine, E. (Ph.D.). 2015. North American Diatom Symposium Student Award. $500.
Corsi, I. (B.S.). 2015. William V. Storch Award, AWRA. $2,000.
Schulte, N. (M.S.). 2014. Hannah T. Croasdale Fellowship. $500.
Mazzei, V. (Ph.D.). 2014. Hannah T. Croasdale Fellowship. $500.
Mazzei, V. (Ph.D.). 2014. Paul C. Silva Student Grant for Travel. $500.
Lee, S. (Ph.D.). 2013. Hannah T. Croasdale Fellowship. $500.
Lee, S. (Ph.D.). 2014. FIU Dissertation Year Fellowship. $16,000.
Quillen, A. (Ph.D.). 2014. FIU Dissertation Year Fellowship. $16,000.
Nodine, E. (Ph.D.). 2013. FIU Dissertation Year Fellowship. $16,000.
Nodine, E. (Ph.D.). 2013. Global Lakes Ecological Observatory Network Award. $2,000.
Lee, S. (Ph.D.). 2012. North American Diatom Symposium Student Award. $500.
Nodine, E. (Ph.D.). 2012. North American Diatom Symposium Student Award. $500.
Schulte, N. (M.S.). 2012. North American Diatom Symposium Student Award. $500.
Nodine, E. (Ph.D.). 2012. Global Lakes Ecological Observatory Network Fellowship. $500.
Sanchez, C. (B.S.). 2012. Barry Goldwater Scholar.
Koch, G. (Ph.D.). 2011. FIU Dissertation Year Fellowship. $25,000.
Lee, S. (Ph.D.). 2011. ForEverglades Fellowship, Everglades Foundation. $20,000.
Koch, G. (Ph.D.). 2010. Global Lakes Ecological Observatory Network Student Award. $6,000.
Lee, S. (Ph.D.). 2010. ForEverlgades Fellowship, Everglades Foundation. $20,000.
Nodine, E. (Ph.D.). 2009. Hannah T. Croasdale Fellowship. $500.
Koch, G. (Ph.D.). 2009. ForEverglades Fellowship, Everglades Foundation. $20,000.
Wachnicka, A. (Ph.D.). 2009. North American Diatom Symposium Student Award. $500.
Wachnicka, A. (Ph.D.). 2009. Jessup and McHenry Scholarship. $1,200.
Quillen, A. (Ph.D.). 2009. North American Diatom Symposium Student Award. $500.
Sanchez, C. (H.S.). 2009. Intel International Science and Engineering Fair. 2nd Place. $1500.
Lee, S. (Ph.D.). 2009. North American Diatom Symposium Student Award. $500.
Nodine, E. (Ph.D.). 2009. North American Diatom Symposium Student Award. $500.
Munyon, J. (M.S.). 2008. Global Lakes Ecological Observatory Network Student Award. $2,000.
Munyon, J. (M.S.). 2008. ForEverglades Fellowship, Everglades Foundation. $10,000.
La Hée, J. (Ph.D.). 2007. FIU Dissertation Year Fellowship. $25,000.
La Hée, J. (Ph.D.). 2007. Judith Parker Travel Scholarship. $500.
La Hée, J. (Ph.D.). 2007. PSA Grants-In-Aid-Of-Research. $500.
La Hée, J. (Ph.D.). 2006. Iowa Lakeside Laboratory Merit Scholarship. $1,000.
La Hée, J. (Ph.D.). 2006. Christina Menendez Fellowship. $1,000.
La Hée, J. (Ph.D.). 2006. Latin American and Caribbean Center Research Travel Grant. $1,000.
La Hée, J. (Ph.D.). 2005. Garden Club of America Scholarship. $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, OP EDS, AND POD CASTS (2017-PRESENT)

Staletovich, J. 2023. Bright Lit Place. https://www.brightlitplace.org/
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

2025 Installation of the Richard Cohen Diatom Pillar at the Glenn Hubert Library, Biscayne Bay Campus, Florida International University.

2024 Panel on More than a Scientist exhibit led by FCE LTER graduate students. Glenn Hubert Library, Florida International University.

2022 Panel on Arts, Science, and Resiliency. Richard Cohen. Glenn Hubert Library. Florida International University.

2021 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/

2016 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

2015 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/

2015 In Deep with Diatoms. Frost Art Museum. Xavier Cortada. Gallery Exhibition and Panel Discussion. https://cortadaprojects.org/event/in-deep-with-diatioms/

2015 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 Pillar by Richard Cohen, Glenn Hubert Library, Florida International University.

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 LECTURES

Gaiser, E. 2024. Through the looking glass: Discovering the "hidden" clues about ecosystems from microscope glass-encased algae. Coastal and Marine Laboratory. Florida State University. St. Teresa, FL.

Gaiser, E. 2022. Periphyton: Prolific, perplexing, and prophetic pond scum. Virtual Presentation. Florida Trail Association. Big Cypress Chapter.

Gaiser, E. 2021. Why diatoms matter. Biscayne National Park Institute. Virtual Presentation.

Gaiser, E. 2021. Florida International University – Deering Estate – Deering Estate Foundation Memorandum of Understanding Updates. Virtual Presentation.

Gaiser, E. 2020. Communicating science through arts engagement. Social Action Workshop. University of Miami, Miami, FL.

Gaiser, E. 2019. Sea-level rise and the Everglades. Hinshaw & Culbertson, LLP, Third Annual Sea-Level Rise Conference. Miami, FL.
Gaiser, E. 2018. How Science Fits In. Everglades Summit. Everglades Foundation. Washington, D.C.
Gaiser, E. 2018. The art of science. Mixtape Mondays. Patricia & Phillip Frost Art Museum. Miami, FL.
Gaiser, E. 2018. Putting plant blindness under the microscope: why plants in glass houses matter. Pinecrest Garden Club. Miami, FL.
Gaiser, E. 2017. 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.
Gaiser, E. 2016. Putting plant blindness under the microscope: why plants in glass houses matter. Annual Meeting of the American Public Garden Association. Miami, Fl.
Gaiser, E. 2015. Miami 2100: Coastal wetlands and sea level rise resilience. Coral Gables Museum. Coral Gables, Florida.
Gaiser, E. 2015. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. The Kampong. Coconut Grove, Florida.
Gaiser, E. 2015. Coastal wetlands and sea level rise resilience. Miami Beach Centennial Environmental Summit. Miami Beach, Florida.
Gaiser, E. 2014. Biodiversity resilience in a changing world: the importance of little glass canaries in coal mines. Native Plant Society. Miami, Florida.
Gaiser, E. 2013. Diatoms of karst rock pools. Misery Bay Science Center. Misery Bay, Ontario.
Gaiser, E. 2013. 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.
Gaiser, E. 2012. 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.
Gaiser, E. 2012. Florida Coastal Everglades Long-Term Ecological Research Program – Status Update. Deering Estate. Miami, FL.
Gaiser, E. 2005. Class III Water Quality Criterion for Everglades wetlands. South Florida Water Management District RECOVER Evaluation Meeting. Davie, FL
Gaiser, E. 2002. Class III Water Quality Criterion for Everglades Wetlands. Florida Department of Environmental Protection presentation to the Environmental Regulation Commission. Tallahassee, FL.
Gaiser, E. 2002. Periphyton of the Florida Everglades. South Florida Native Plant Society Meeting. Fairchild Tropical Gardens. Miami, FL.
Gaiser, E. 2002. Recommendations for wetland restoration based on paleoecological targets. 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)
- LTER Readings
- Creative Science Communications

UNDERGRADUATE RESEARCH PROJECTS AT FIU*

2023-2024	Carolina Bello: Periphyton biomass along an Everglades phosphorus gradient
2022-2023	Michelle Yi: Effects of saltwater intrusion on periphyton production
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

<u>Completed</u>

19. Shannon, Thomas. 2025. Drivers of benthic algal metacommunities and their functional resilience. Ph.D. Dissertation. Department of Biological Sciences. Florida International University.
18. Innocent, Hanna. 2024. The contrasting responses of phytoplankton and periphyton to spatially variable N:P ratios in a large, shallow hypereutrophic lake. Master's thesis, Florida International University.
17. Hormiga, Samantha. 2024. Coastal carbon flux: periphyton contributions and diatom indicators. M.S. Thesis. Department of Biological Sciences, Florida International University.
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 mat-forming 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. Isabella Lopez, M.S., began Fall 2025
4. Micaela Kersey, Ph.D. began Fall 2025
3. Sarah Mulligan, Ph.D. began Fall 2025
2. Katherine Johnson, Ph.D. began Fall 2023
1. Paige Kleindl, Ph.D., began Fall 2020

COMPLETED GRADUATE STUDENT COMMITTEES SERVED

Alan Mock, Ph.D. Biology, 2026
Marco Fernandez, Ph.D. Biology, 2026
Liz Ortiz-Munoz, Ph.D. Biology, 2025
Rosario Vidales, Ph.D. Earth & Environment, 2025
Alexander Eden, Ph.D. Biology, 2025
Jordon King, M.S. Biology, 2024
Anne Sabol, Ph.D. Biology, 2024
Lukas Lamb, Ph.D., Biology, 2024
Afia Anjuman, Ph.D., Chemistry, 2023
Kenneth Anderson, Ph.D., Biology, 2023
Robert Tomasetti, Ph.D. Biology, 2023
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

2025-Present	Emilie Arsenault (Ph.D. Université Laval)
2025-Present	Thomas Shannon (Ph.D. Florida International University)
2022-Present	Kelsey Solomon (Ph.D. University of Georgia)
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

HONORS RECEIVED BY GRADUATE STUDENTS

Johnson, K., 2025. Inducted Member, Sigma Xi
Innocent, H. 2024. Outstanding Graduate. FIU College of Arts, Science, & Education.
Innocent, H. 2024. Emerge Early Career Fellowship. Society for Freshwater Science.
Solomon, K., 2024. Synthesis Skills for Early Career Researchers Fellow, LTER Network.
Johnson, K., 1st Place Oral Presentation, North American Diatom Symposium
Kleindl, P., 1st Place Oral Presentation, North American Diatom Symposium
Shannon, T. 2024. Student of the Year, Florida Coastal Everglades LTER
Shannon, T. 2024. 1st Place Poster, Florida Coastal Everglades LTER
Kleindl, P. 2024. 1st Place Presentation, North American Diatom Symposium
Kleindl, P. 2024. 1st Place Presentation, FIU Biosymposium
Kleindl, P. 2023. 1st Place Presentation, FIU Biosymposium
Berthold, D. 2021. FIU Real Triumphs Graduate
Stansbury, K. 2021. 1st Place Presentation, FIU Biosymposium

Schulte, N. 2014. 1st Place Presentation, FCE LTER All Scientists Meeting
Lee, S. 2012. 3rd Place in Environment, Earth, Energy, and Ecology. Graduate Scholarly Forum
Lee, S. 2012. Honorable Mention, INTECOL Society of Wetland Scientists
Wachnicka, A. 2006. 1st Place Poster, FCE LTER All Scientists Meeting
La Hée, J. 2005. 1st Place Poster, FIU Biosymposiu

PROFESSIONAL, UNIVERSITY, AND PUBLIC SERVICE

SERVICE TO FLORIDA INTERNATIONAL UNIVERSITY

2022-2025	Member, Faculty Senate
2020-Present	Director, South Florida-Caribbean, Cooperative Ecosystem Studies Unit
2020-2022	Member, *Next Horizon* 2025 Strategic Plan Implementation Committee
2018-2020	Member, *Next Horizon* 2025 Strategic Plan Finances Committee
2018-2022	Administrator, FIU-Florida Power & Light Memorandum of Understanding
2017-2022	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
2014-2022	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

2022-2025	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
2017-2022	Faculty Mentor, Sparkle Malone
2016-2022	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

2025 Andrew Bramburger, Environment Canada
2024 Robert Jan Stevenson (Virtual), Michigan State University
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

<u>Advisory Committees and Executive Boards</u>

2022-Present Chair, Long-Term Ecological Research Network Executive Board
2023-Present Member, Flathead Lake Biological Station Science Advisory Committee
2020-2023 External Advisor, Algal Taxonomy Technical Working Group, National Ecological Observatory Network

2012-2015 Member, Executive Board, Long Term Ecological Research Network
2012-2015 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, *Ecosphere*
2016 Guest Editor, *Ecosphere*
2015 Guest Editor, *Ecosphere*
2014-2015 Associate Editor, *Frontiers in Ecology and the Environment*
2013-Current Guest Editor, *Wetlands*
2012 Guest Editor, *Journal of Paleolimnology*
2012-Present Associate Editor, *Wetlands*
2006 Guest Editor, *Hydrobiologia*

Grant Proposal Reviews and Panels

National Science Foundation Reviews (67), National Science Foundation Panels (17), 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.
2018 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
2017 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

2016-Present Expert Witness, Palm Beach County vs. Florida Department of Transportation
2019-Present Member, Blue-Green Algae Task Force, State of Florida
2014-2020 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

2023 FIU College of Arts, Sciences and Education Award for Excellence in Research
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