

CURRICULUM VITAE

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Education:

Ph.D.: University of Florida, Gainesville, FL, 1983
M.S.: University of Florida, Gainesville, FL, 1978
B.A.: Grinnell College, Grinnell, IA, 1973

Employment:

Department of Geological Sciences, UF, 2009-present. Professor & Director, Land Use and Environmental Change Institute (LUECI).
Department of Geological Sciences, UF, 2004-2009. Associate Professor & Director, Land Use and Environmental Change Institute (LUECI).
Department of Geological Sciences, UF, 2000-2004. Assistant Professor & Director, Land Use and Environmental Change Institute (LUECI).
Affiliate Faculty, Department of Fisheries and Aquatic Sciences, 2000-2010.
Affiliate Faculty, School of Natural Resources and Environment, 1999-present.
Affiliate Faculty, Center for Latin American Studies, 2004-present.
Department of Fisheries and Aquatic Sciences, UF, 1996-2000. Research Assistant Professor.
Department of Fisheries and Aquatic Sciences, UF, 1990-1995. Assistant-In Paleolimnology.
Florida Museum of Natural History, UF, 1989-1990. Research Associate.
Soil Science Department, UF, 1988-1989. Research Associate.
Florida State Museum, UF, 1983-1988. Post-Doctoral Research Associate.

Dissertation (supervised by Edward S. Deevey):

Brenner, M. 1983. Paleolimnology of the Maya region. Ph.D. dissertation, Univ. Florida, Gainesville. 249 pp.

Thesis (supervised by Edward S. Deevey):

Brenner, M. 1978. Paleolimnological assessment of human disturbance in the drainage basins of three northern Guatemalan lakes. M.S. thesis, Univ. Florida, Gainesville. 128 pp.

Awards/Recognitions:

2022 – International Paleolimnology Association (IPA) “Rick Battarbee Lifetime Achievement Award.” Presented at the International Paleolimnology Symposium in Bariloche, Argentina, 30 November 2022.

2018-2021 – University of Florida Water Institute Faculty Fellow. Recognizes University of Florida faculty who are making outstanding research, extension, or education contributions in water programs that further UF’s interdisciplinary communities of science in water.

2018 – International Educator of the Year Award of the University of Florida (Senior Faculty). In recognition of outstanding contributions to international education for the University of Florida. Presented November 2018, Gainesville, Florida.

2013 – Florida Lake Management Society “Edward Deevey, Jr. Award,” for contributions to the scientific understanding of Florida’s water bodies. Presented at the 24th Annual Technical Symposium of the Florida Lake Management Society, Daytona Beach Shores, Florida, June 2013.

Publications:

Yolimar Suárez-Mozo, N., E. Guerra-Castro, M. Brenner, W.F. Kenney, M. Díaz Asencio, J.H. Curtis, and N. Simões. In prep. Responses of mollusks to historical environmental disturbances in Río Lagartos coastal lagoon (Mexico).

Morgan, M., J.C. Lohse, J.G. Jones, W.D. Hamilton, C. Frederick, B. Winsborough, M. Brenner, J. Curtis, A. McKee, M. Kay, and K. Cardona. In prep. Early-Middle Holocene human disturbance on the Pacific coast of Guatemala.

Brenner, M., W.F. Kenney, T.J. Whitmore, J.H. Curtis, and M.A. Lasi. In prep. 20th-century geochemical and trophic state changes in a shallow, hyper-eutrophic, subtropical lake.

Perez, L., P. Echeverría-Galindo, A. Correa-Metrio, and M. Brenner. Submitted. Non-marine ostracodes as proxies for climate and environmental changes in the northern Neotropics. In: S. Cohuo, L. Macario-González, M. Elías-Gutiérrez, A. Schwalb and M. Brenner (eds.), *Crustacean Issues: Freshwater Ostracodes of the Northern Neotropical Region*. CRC Press, Boca Raton, FL.

Ghosh, S., J. Obrist-Farner¹, J.R. Stone, L. Pérez, M. Wojewódka, R. Smith, M. Brenner, J.H. Curtis, S.R.H. Zimmerman, A. Correa-Metrio, G. Echeverría Galindo, M.J. Brosky, R.G. Hatfield, and L. Pérez⁸. Submitted. Vulnerability of coastal freshwater ecosystems to ongoing sea-level rise. *Communications Earth & Environment*.

- James D.H., S.A. Carolin, S.F.M. Breitenbach, J.A. Hoggarth, E. Endsley, J.H. Curtis J, C.D. Gallup, S. Milbrath, J. Nicolson, J. Rolfe, O. Kwiecien, J.U.L. Baldini, M. Brenner, G.M. Henderson, and D.A. Hodell. Revised. Classic Maya response to multi-year seasonal droughts in northwest Yucatán, Mexico. *Nature Communications*.
- Jones, J.G., J.C. Lohse, D. Hamilton, M. Brenner, J. Curtis, C.D. Frederick, and M. Morgan. In Revision. Floral landscapes of the past in Pacific coastal Suchitepéquez, Guatemala. *Palynology*.
- Martínez-Abarca R, L. Pérez, T. Bauersachs, F. Schenk, S. Kutterolf, A. Correa-Metrio, D. Hodell, F. Anselmetti, R. Brown, M. Stockhecke, E. Cruz-Silva, J.C. Beltran-Martinez, L. Macario-Gonzalez, M. Brenner, D. Ariztegui, M. Bush, J. Curtis, Th. Guilderson, and A. Schwalb. Precipitation variability and environmental change across late Quaternary glacial-interglacial cycles in lowland Central America: Insights from Lake Petén Itzá (Guatemala) sediments. *Quaternary Science Reviews* 344: 108985. <https://doi.org/10.1016/j.quascirev.2024.108985>
- Brenner, M. and W.F. Kenney. 2024. In defense of mud II: lakes as carbon sinks. *Bulletin of the Ecological Society of America*. <https://doi.org/10.1002/bes2.2187>
- Pérez, L., P. de Tezanos, P. Echeverría-Galindo, F. Charqueño-Celis, A. Cook Shinnemann, A. Myrbo, M. Tonello, M. Bücker, M. Brenner, H. Bennion, and J. Massaferró. 2024. Diversity, equity, and inclusion in paleolimnology: insights from the 2022 IAL-IPA Symposium. *Journal of Paleolimnology*. <https://doi.org/10.1007/s10933-024-00320-4>
- Morrison, E.S., T.S. Bianchi, W.F. Kenney, M. Brenner, K. Prince, S. Williams, C. Ortals, S. Crotty, and C. Angelini. In press (2024). Influence of the keystone grazer, *Sesarma reticulatum*, on the hydrology and organic matter cycling of salt marshes in the southeastern United States. *Estuaries and Coasts*. <https://doi.org/10.1007/s12237-024-01336-9>
- Brenner, M(2024). My circuitous but fortuitous path to paleolimnology. *Journal of Paleolimnology*. <https://doi.org/10.1007/s10933-024-00317-z>
- Obrist-Farner, J., A. Eckert, P.M.J. Douglas, L. Perez, A. Correa-Metrio, B.L. Konecky, T. Bauersachs, S. Zimmerman, S. Scheidt, M. Brenner, S. Kutterolf, J. Maurer, O. Flores, C.M. Burberry, A. Noren, A. Myrbo, M. Lachniet, N. Wattrus, D. Gibson, and the LIBRE scientific team. 2023. Planning for the Lake Izabal Basin Research Endeavor (LIBRE) continental scientific drilling project in eastern Guatemala. *Scientific Drilling* 32:85-100. <https://doi.org/10.5194/sd-32-85-2023>
- Yolimar Suárez-Mozo, N., M. Brenner, W.F. Kenney, M. Díaz-Asencio, J.H. Curtis, M.A. Aquino-Lopez, E. Guerra-Castro, and N. Simões. 2023. Benthic mollusc communities across space and through time in a hypersaline coastal lagoon, México.

Estuarine, Coastal and Shelf Science 290:108413.
<https://doi.org/10.1016/j.ecss.2023.108413>

Emery Boeck, M., 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>

Homann, J., N. Karbach, S.A. Carolin, D.H. James, D. Hodell, S.F.M. Breitenbach, O. Kwiecien, M. Brenner, C. Peraza Lope, T. Hoffmann. 2023. Past fire dynamics inferred from polycyclic aromatic hydrocarbons and monosaccharide anhydrides in a stalagmite from the archaeological site of Mayapan, Mexico. *Biogeosciences* 20: 3249 -3260. <https://doi.org/10.5194/bg-20-3249-2023>

Yolimar Suárez-Mozo, N., V. Papiol, C. Enriquez, M. Brenner, and N. Simões. 2023. Molluscs along a salinity gradient in a hypersaline coastal lagoon, southern Gulf of Mexico. *Journal of the Marine Biological Association of the United Kingdom* 103, E19. <https://doi.org/10.1017/S0025315423000085>

Kutterolf, S., M. Brenner, R. Dull, A. Freundt, J. Kallmeyer, S. Krastel, S. Katsev, E. Lebas, A. Meyer, L. Pérez, J. Rausch, A. Saballos, A. Schwalb, and W. Strauch. 2023. Workshop on Drilling the Nicaraguan Lakes: Bridging Continents and Oceans (NICA-BRIDGE). *Scientific Drilling* 32:73-84. <https://doi.org/10.5194/sd-32-73-2023>

Martínez-Abarca, M., M. Abstein, P. Hoelzmann, D. Hodell, M. Brenner, S. Kutterolf, S. Cohuo, L. Macario-González, M. Stockhecke, J. Curtis, F. Anselmetti, D. Ariztegui, T. Guilderson, A. Correa- Metrio, F. Schenk, T. Bauersachs, L. Pérez, and A. Schwalb. 2023. Millennial hydrological variability in the continental northern Neotropics during Marine Isotope Stages (MISs) 3–2 (59–15 cal ka BP) inferred from sediments of Lake Petén Itzá, Guatemala. *Climate of the Past* 19: 1409-1434. <https://doi.org/10.5194/cp-19-1409-2023>

Seitz, C., W.F. Kenney, B. Patterson-Boyarski, J.H. Curtis, M. Velez, K. Glodzik, J. Escobar, and M. Brenner. 2023. Sea level changes and paleoenvironmental responses in a coastal Florida salt marsh over the last three centuries. *Journal of Paleolimnology*. <https://doi.org/10.1007/s10933-022-00275-4>

Brenner, M. 2023. Classics revisited/From the archive. *Mayan Urbanism: Impact on a Tropical Karst Environment*. *Progress in Physical Geography* 47(2):179-188. <https://doi.org/10.1177/03091333221112360>

Lohse, J.C., M. Morgan, J.G. Jones, M. Brenner, J.H. Curtis, W.D. Hamilton, and K. Cardona. 2022. Early Maize in the Maya Area. *Latin American Antiquity* 33(4): 677-692. <https://doi.org/10.1017/laq.2022.55>

Kennett, D.J., M. Masson, C. Peraza Lope, S. Serafin, R. George, T. Spencer, J. Hoggarth, B.J. Culleton, T. Harper, K.M. Prufer, S. Milbrath, B. Russell, E. Uc

- González, W.C. McCool, V.V. Aquino, E. Paris, J.H. Curtis, N. Marwan, M. Zhang, Y. Asmerom, V. Polyak, S.A. Carolin, D.H. James, A. Mason, G. Henderson, M. Brenner, J.U.L. Baldini, S.F.M. Breitenbach, and D.A. Hodell. 2022. Drought-induced civil conflict among the ancient Maya. *Nature Communications* 13:3911. <https://doi.org/10.1038/s41467-022-31522-x>
- Waters, M.N., M. Brenner, J.H. Curtis, C.S. Romero Oliva, M. Dix, and M. Cano. 2021. Harmful algal blooms and cyanotoxins in Lake Amatitlán, Guatemala, coincided with ancient Maya occupation in the watershed. *Proceedings of the National Academy of Sciences (USA)* 118 No. 48 e2109919118. <https://doi.org/10.1073/pnas.2109919118>
- Domic, A.I., S.W. Hixon, M.I. Velez, S.J. Ivory, K.G. Douglass, M. Brenner, J.H. Curtis, B.J. Culleton, and D.J. Kennett. 2021. Influence of Late Holocene climate change and human land use on terrestrial and aquatic ecosystems in southwest Madagascar. *Frontiers in Ecology and Evolution* 9: Article 688512. <https://doi.org/10.3389/fevo.2021.688512>
- Hixon, S.W., J.H. Curtis, M. Brenner, K.G. Douglass, A.I. Domic, B.J. Culleton, S.J. Ivory and D.J. Kennett. 2021. Drought coincided with, but does not explain, Late Holocene megafauna extinctions in SW Madagascar. *Climate* 2021, 9, 38. <https://doi.org/10.3390/cli9090138>
- Armenteros, M., M. Díaz-Asencio, R. Peraza-Escarrá, R. Fernández-Garcés, A. Martínez-Suárez, W.F. Kenney, and M. Brenner. 2021. Mollusk death assemblages in ²¹⁰Pb-dated marine sediment cores reveal recent biotic changes in the Gulf of Guanahacabibes, NW Cuba. *Marine Environmental Research* 171:105477. <https://doi.org/10.1016/j.marenvres.2021.105477>
- Obrist-Farner, J., M. Brenner, J.R. Stone, M. Wojewódka-Przybyl, T. Bauersachs, A. Eckert, M. Locmelis, J.H. Curtis, S.R.H. Zimmerman, A. Correa-Metrio, L. Schwark, E. Duarte, A. Schwalb, E. Niewerth P.G. Echeverría Galindo, and L. Pérez. 2021. New estimates of the magnitude of the sea-level jump during the 8.2-ka event. *Geology*. <https://doi.org/10.1130/G49296.1>
- Velez, M.I., J. Salgado, M. Brenner, H. Hooghiemstra, J. Escobar, A. Boom, B. Bird, J.H. Curtis, Y. Temoltzin-Loranca, L.F. Patino. C. Gonzalez-Arango; S.E. Metcalfe, G.L. Simpson, and C. Velasquez. 2021. Novel responses of diatoms in neotropical mountain lakes to indigenous and post-European occupation. *Anthropocene* 34: 100294. <https://doi.org/10.1016/j.ancene.2021.100294>
- Pérez, L., A. Correa-Metrio, S. Cohuo, L. Macario-González, P. Echeverría-Galindo, M. Brenner, J. Curtis, S. Kutterolf, M. Stockhecke, F. Schenk, T. Bauersachs, and A. Schwalb. 2021. Ecological turnover in neotropical freshwater and terrestrial communities during episodes of abrupt climate change. *Quaternary Research* 101:26-36. <https://doi.org/10.1017/qua.2020.124>

- Torregroza-Espinosa, A.C., J.C. Restrepo, J. Escobar, M. Brenner, and A. Newton. 2020. Nutrient input and net ecosystem productivity in the mouth of the Magdalena River, Colombia. *Estuarine, Coastal and Shelf Science* 243:106899. <https://doi.org/10.1016/j.ecss.2020.106899>
- Hernandez, E., J. Obrist-Farner, M. Brenner, W.F. Kenney, J.H. Curtis, and E. Duarte. 2020. Natural and anthropogenic sources of lead, zinc, and nickel in sediments of Lake Izabal, Guatemala. *Journal of Environmental Sciences* 96:117-126. <https://doi.org/10.1016/j.jes.2020.04.020>
- Kusnerik, K.M., G.H. Means, R.W. Portell, M. Brenner, Q. Hua, A. Kannai, R. Means, M.A. Monroe, and M. Kowalewski. 2020. Live, dead, and fossil mollusks in Florida freshwater springs and spring-fed rivers: Taphonomic pathways and the formation of multisourced, time-averaged death assemblages. *Paleobiology*: 1-23. <https://doi.org/10.5061/dryad.v9s4mw6qt>
- Chen, X. D. Wu, X. Huang, F.Ly, M. Brenner, H. Jin, and F. Chen. 2020. Response of vegetation in subtropical southwest China to rapid climate change during the Younger Dryas. *Earth-Science Reviews*. <https://doi.org/10.1016/j.earscirev.2020.103080>
- Serna, Y., A. Correa-Metrio, W.F. Kenney, J.H. Curtis, M.I. Velez, M. Brenner, N. Hoyos, J.C. Restrepo, C. Cordero-Oviedo, D. Buck, N. Suarez, and J.H. Escobar. 2020. Post-colonial pollution of the Bay of Cartagena, Colombia. *Journal of Paleolimnology* 63:21-35. <https://doi.org/10.1007/s10933-019-00101-4>
- Cohuo, S., L. Macario-González, S. Wagner, K. Naumann, P. Echevarria, L. Pérez, J. Curtis, M. Brenner, and A. Schwalb. 2020. Influence of late Quaternary climate on the biogeography of Neotropical aquatic species as reflected by non-marine ostracodes. *Biogeosciences* 17:145-161. <https://doi.org/10.5194/bg-17-145-2020>
- Charqueno Celis, N.F., M. Garibay, I. Sigala, M. Brenner, P. Echeverria-Galindo, S. Lozano, J. Massaferrero, and L. Pérez. 2019. Testate amoebae (Amoebozoa: Arcellinidae) as indicators of dissolved oxygen concentration and water depth in lakes of the Lacandón Forest, southern México. *Journal of Limnology* 79(1): 82-91. <https://doi.org/10.4081/jlimnol.2019.1936>
- Waters, M.N, W.F. Kenney, M. Brenner, and B.C. Webster. 2019. Carbon sequestration in sediments of subtropical Florida lakes. *PLoS ONE* 14(12): e0226273. <https://doi.org/10.1371/journal.pone.0226273>
- Arnold, T.E., W.F. Kenney, J.H. Curtis, T. Bianchi, and M. Brenner. 2019. Recent trophic state changes in selected Florida lakes inferred from bulk sediment geochemical variables and biomarkers. *Journal of Paleolimnology* 62: 409-423. <https://doi.org/10.1007/s10933-019-00096-y>
- Echeverría Galindo, P.G., L. Pérez, A. Correa-Metrio, C.E. Avendaño, B. Moguel, M. Brenner, S. Cohuo, L. Macario, M. Caballero, and A. Schwalb. 2019. Tropical freshwater ostracods as environmental indicators across an altitude gradient in

Guatemala and México. *Revista de Biología Tropical (International Journal of Tropical Biology)* Vol. 67(4): 1037-1058.

<https://revistas.ucr.ac.cr/index.php/rbt/article/view/33278/39675>

Obrist-Farner, J., M. Brenner, J.H. Curtis, W.F. Kenney, and C. Salvinelli. 2019. Recent onset of eutrophication in Lake Izabal, the largest water body in Guatemala. *Journal of Paleolimnology* 62:359–372. <https://doi.org/10.1007/s10933-019-00091-3>

Buck, D.G., P.C. Esselman, S. Jiang, J.D. Wainwright, M. Brenner, and M.J. Cohen. 2019. Concentrations and fluxes of dissolved nutrients in tropical streams dominated by swidden agriculture in the Maya Forest of Belize, Central America. *Multidisciplinary Digital Publishing Institute – Water* 11: 664; <https://doi:10.3390/w11040664>

Wu, D., X. Chen, F. Lv, M. Brenner, J. Curtis, A. Zhou, J. Chen, M. Abbott, J. Yu, and F. Chen. 2018. Decoupled early Holocene summer temperature and monsoon precipitation in southwest China. *Quaternary Science Reviews* 193:54-67. <https://doi.org/10.1016/j.quascirev.2018.05.038>

Arnold, T.E., A.F. Diefendorf, M. Brenner, K.H. Freeman, and A.A. Baczynski. 2018. Climate response of the Florida Peninsula to Heinrich events in the North Atlantic. *Quaternary Science Reviews* 194:1-11. <https://doi.org/10.1016/j.quascirev.2018.06.012>

Puerres, L.Y., G. Bernal, M. Brenner, S.A. Restrepo-Moreno, and W.F. Kenney. 2018. Sedimentary records of extreme wave events in the southwestern Caribbean. *Geomorphology* 319:103-116. <https://doi.org/10.1016/j.geomorph.2018.07.002>

Douglas, P.M.J., M. Pagani, T.I. Eglington, M. Brenner, J.H. Curtis, A. Breckinridge, and K. Johnston. 2018. A long-term decrease in the persistence of soil carbon caused by ancient Maya land use. *Nature Geoscience* 11:645-649. <https://doi.org/10.1038/s41561-018-0192-7>

Evans, N.P., T.K. Bauska, F. Gázquez-Sánchez, M. Brenner, J. Curtis, and D.A. Hodell. 2018. Quantification of drought during the collapse of the classic Maya civilization. *Science* 361:498-501. <https://doi.org/10.1126/science.aas9871>

Lohse, J.C., W.D. Hamilton, M. Brenner, J. Curtis, T. Inomata, M. Morgan, K. Cardona, K. Aoyama, and H. Yonenobu. 2018. Late Holocene volcanic activity and environmental change in Highland Guatemala. *Quaternary Science Reviews* 191:378-392. <https://doi.org/10.1016/j.quascirev.2018.05.014>

Larios Mendieta, K., S. Gerber, and M. Brenner. 2018. Florida wildfires during the Holocene Climatic Optimum (9000-5000 cal yr BP). *Journal of Paleolimnology* 60: 51-66. <https://doi.org/10.1007/s10933-018-0023-2>

- Arnold, T.E., W.F. Kenney, J.H. Curtis, T.S. Bianchi, and M. Brenner. 2018. Sediment biomarkers elucidate the Holocene ontogeny of a shallow lake. PLoS ONE 13(1): e0191073. <https://doi.org/10.1371/journal.pone.0191073>
- Brenner, M. 2018. The Lake Petén Itzá watershed: modern and historical ecology. Pp. 40-57, In P.M. and D.S. Rice (eds.), *Historical and Archaeological Perspectives on the Itzas of Petén, Guatemala*. University of Colorado Press, Boulder.
- Boyer, A.G., M. Brenner, D.A. Burney, J.M. Pandolfi, M. Savarese, G.P. Dietl, and K.W. Flessa. 2017. Conservation paleobiology roundtable: from promise to application. Pp. 291-305, In: G.P. Dietl and K.W. Flessa (eds.), *Conservation Paleobiology: Science and Practice*. The University of Chicago Press, Chicago.
- Hine, A.C., E.E. Martin, J.M. Jaeger, and M. Brenner. 2017. Paleoclimate of Florida. Pp. 457-484, In E.P. Chassignet, J.W. Jones, V. Misra, and J. Obeysekera (eds.), *Florida's Climate: Changes, Variations & Impacts*. Florida Climate Institute, Gainesville, FL. <https://doi.org/10.17125/fci2017.ch15>
- Mays, J., M. Brenner, J.H. Curtis, K.V. Curtis, D.A. Hodell, A. Correa-Metrio, J. Escobar, A. Dutton, A. Zimmerman, and T.P. Guilderson. 2017. Stable carbon isotopes ($\delta^{13}\text{C}$) of total organic carbon and long-chain *n*-alkanes as proxies for climate change in a sediment core from Lake Petén-Itzá, Guatemala. *Journal of Paleolimnology* 57:307-319. <https://doi.org/10.1007/s10933-017-9949-z>
- Díaz, K.A., L. Pérez, A. Correa-Metrio, J.F. Franco-Gaviria, P. Echeverría, J.H. Curtis and M. Brenner. 2017. Holocene environmental history of tropical, mid-altitude Lake Ocotlito, Mexico, inferred from ostracodes, geochemistry and stable isotopes. *The Holocene* 27:1308-1317. <https://doi.org/10.1177/0959683616687384>
- Sharpe A.E., G.D. Kamenov, A. Gilli, D.A. Hodell, K.F. Emery, M. Brenner M, and J. Krigbaum. 2016. Lead (Pb) isotope baselines for studies of ancient human migration and trade in the Maya region. PLoS ONE 11(11): e0164871. <https://doi:10.1371/journal.pone.0164871>
- Kutterolf, S., J.C. Schindlbeck, F.S. Anselmetti, D. Ariztegui, M. Brenner, J. Curtis, D. Schmid, D.A. Hodell, A. Mueller, L. Pérez, W. Pérez, A. Schwab, and K-L. Wang. 2016. A 400-ka tephrochronological framework for Central America from Lake Petén Itzá (Guatemala) sediments. *Quaternary Science Reviews* 150:200-220. <https://doi.org/10.1016/j.quascirev.2016.08.023>
- Douglas, P.M.J., A.A. Demarest, M. Brenner, and M. Canuto. 2016. Drought impacts on the Lowland Maya Civilization. *Annual Review of Earth and Planetary Sciences* 44:613-645. <https://doi.org/10.1146/annurev-earth-060115-012512>
- Kenney W.F., M. Brenner, J.H. Curtis, T.E. Arnold and C.L. Schelske. 2016. A Holocene sediment record of phosphorus accumulation in shallow Lake Harris, Florida (USA)

offers new perspectives on recent cultural eutrophication. PLoS ONE 11(1):e0147331. <https://doi.org/10.1371/journal.pone.0147331>

Rosenmeier, M.F., M. Brenner, D.A. Hodell, J.B. Martin, J.H. Curtis, and M.W. Binford. 2016. A model of the 4000-year paleohydrology ($\delta^{18}\text{O}$) record from Lake Salpetén, Guatemala. *Global and Planetary Change* 138:43–55.

<https://doi.org/10.1016/j.gloplacha.2015.07.006>

Douglas, P.M.J., M. Brenner, and J.H. Curtis. 2016. Methods and future directions for paleoclimatology in the Maya Lowlands. *Global and Planetary Change* 138:3–24.

<https://doi.org/10.1016/j.gloplacha.2015.07.008>

Kenney W.F., M. Brenner, T.E. Arnold, J.H. Curtis and C.L. Schelske. 2016. Sediment cores from shallow lakes preserve reliable, informative paleoenvironmental archives despite hurricane-force winds. *Ecological Indicators* 60:963-969.

<https://doi.org/10.1016/j.ecolind.2015.08.046>

Waters, M.N, C.L. Schelske, and M. Brenner. 2015. Cyanobacteria dynamics in shallow Lake Apopka (Florida, U.S.A.) before and after the shift from a macrophyte-dominated to a phytoplankton-dominated state. *Freshwater Biology* 60:1571-1580.

<https://doi.org/10.1111/fwb.12589>

Douglas, P.M.J., M. Pagani, M.A. Canuto, M. Brenner, D.A. Hodell, T.I. Eglinton, and J.H. Curtis. 2015. Drought, agricultural adaptation and sociopolitical collapse in the Maya Lowlands. *Proceedings of the National Academy of Sciences* 112(18): 5607-5612. www.pnas.org/cgi/doi/10.1073/pnas.1419133112

Dietl, G.P, S.M. Kidwell, M. Brenner, D.A. Burney, K.W. Flessa, S.T. Jackson, and P.L. Koch. 2015. Conservation paleobiology: leveraging knowledge of the past to inform conservation and restoration. *Annual Review of Earth and Planetary Sciences* 43:79-103. <https://doi.org/10.1146/annurev-earth-040610-133349>

Douglas, P., M. Pagani, T. Eglinton, M. Brenner, D.A. Hodell, J.H. Curtis, and K. Ma. 2014. Pre-aged plant waxes in tropical lake sediments and their influence on the chronology of molecular paleoclimate proxy records. *Geochimica et Cosmochimica Acta* 141:346-364. <https://doi.org/10.1016/j.gca.2014.06.030>

Lorenschat J., L. Pérez, A. Correa-Metrio, M Brenner, U. von Bramann, B. Wagner, and A. Schwalb. 2014. Diversity and spatial distribution of extant freshwater ostracodes (Crustacea) in ancient Lake Ohrid (Macedonia/Albania). *Diversity* 6(3): 524-550. <https://doi.org/10.3390/d6030524>

Arnold, T.E., M. Brenner, J.H. Curtis, A. Dutton, S.M. Baker, J.H. Escobar, and C.A.. Ortega. 2014. Application of stable isotopes ($\delta^{18}\text{O}$) to determine growth patterns of the invasive gastropod *Pomacea maculata* in Florida lakes. *Florida Scientist* 77(3):126-143. <https://www.jstor.org/stable/24321904>

- Velez, M.I., J. Escobar, M. Brenner, O. Rangel, A. Betancourt, J.A. Jaramillo, J.H. Curtis, and J.L. Moreno. 2014. Middle to late Holocene relative sea level rise along the Colombian Caribbean coast inferred from a sediment core taken in the Ciénaga Grande de Santa Marta. *The Holocene* 24:898-907. <https://doi.org/10.1177/0959683614534740>
- Kenney, W.F., T.J. Whitmore, D.G. Buck, M. Brenner, J.H. Curtis, J.J. Di, P.L. Kenney and C.L. Schelske. 2014. Whole-basin, mass-balance approach for identifying critical phosphorus-loading thresholds in shallow lakes. *Journal of Paleolimnology* 51:515-528. <https://doi.org/10.1007/s10933-014-9771-9>
- Fontana, L., A.L. Spadano Albuquerque, M. Brenner, D.M. Bonotto, T.P.P. Sabaris, M.A. Faustino Pires, M.E. Barboza Cotrim and D. de Campos Bicudo. 2014. The eutrophication history of Guarapiranga Reservoir, São Paulo, Brazil. *Journal of Paleolimnology* 51:29-43. <https://doi.org/10.1007/s10933-013-9753-3>
- Pérez, L., J. Curtis, M. Brenner, D. Hodell, J. Escobar, Socorro Lozano and A. Schwalb. 2013. Stable isotope values ($\delta^{18}\text{O}$ & $\delta^{13}\text{C}$) of multiple ostracode species in a large Neotropical lake as indicators of past changes in hydrology. *Quaternary Science Reviews* 66:96-111. <https://doi.org/10.1016/j.quascirev.2012.10.044>
- Pérez, L., J. Lorenschat, J. Massafferro, C. Pailles, F. Sylvestre, W. Hollwedel, G.-O. Brandorff, M. Brenner, G. Islebe, M.S. Lozano, B. Scharf, A. Schwalb. 2013. Bioindicators of climate and trophic state in lowland and highland aquatic ecosystems of the Northern Neotropics. *Revista de Biología Tropical (International Journal of Tropical Biology)* 61:603-644. https://www.scielo.sa.cr/scielo.php?script=sci_arttext&pid=S0034-77442013000300012
- Brenner, M. and W.F. Kenney. 2013. Dating wetland sediment cores. Pp. 879-900, In: R.D. DeLaune, K.R. Reddy, C.J. Richardson and J.P. Megonigal (eds.), *Methods in Biogeochemistry of Wetlands*. Soil Science Society of America (SSSA Book Series 10), Madison, WI. <https://doi.org/10.2136/sssabookser10.c45>
- Douglas, P., M. Pagani, M. Brenner, D.A. Hodell and J.H. Curtis. 2012. Aridity and vegetation composition are important determinants of leaf-wax δD values in southeastern Mexico and Central America. *Geochimica et Cosmochimica Acta* 97:24-45. <http://dx.doi.org/10.1016/j.gca.2012.09.005>
- Correa-Metrio, A., M.B. Bush, K.R. Cabrera, S. Sully, M. Brenner, D.A. Hodell, J. Escobar, and T. Guilderson. 2012. Rapid climate change and no-analog vegetation in lowland Central America during the last 86,000 years. *Quaternary Science Reviews* 38:63-75. <https://doi.org/10.1016/j.quascirev.2012.01.025>
- Escobar, J., D.A. Hodell, M. Brenner, J.H. Curtis, A. Gilli, A.D. Müller, F.S. Anselmetti, D. Ariztegui, D.A. Grzesik, L. Pérez, A. Schwalb, and T.P. Guilderson. 2012. A ~43-ka record of paleoenvironmental change in the Central American lowlands inferred

- from lacustrine ostracod $\delta^{18}\text{O}$. *Quaternary Science Reviews* 37:92-104.
<https://doi.org/10.1016/j.quascirev.2012.01.020>
- Torres, I.C., P. Inglett, M. Brenner, and K.R. Reddy. 2012. Stable isotope ($\delta^{13}\text{C}$ & $\delta^{15}\text{N}$) signatures of sediment organic matter in subtropical lakes of different trophic status. *Journal of Paleolimnology* 47:693-706. <https://doi.org/10.1007/s10933-012-9593-6>
- Pérez, L., J. Lorenschat, M. Brenner, B. Scharf, and A. Schwalb. 2012. Non-marine ostracodes (Crustacea) of Guatemala. Pp. 121-131 In E.B. Cano and J.C. Schuster (eds.), *Biodiversidad de Guatemala, Volumen 2*. Universidad del Valle de Guatemala, Guatemala City, Guatemala.
- Day, M.B., D.A. Hodell, M. Brenner, J.H. Curtis, H.J. Chapman, W.F. Kenney, T.P. Guilderson, L.C. Peterson, and A.L. Kolata. 2012. Paleoenvironmental history of the West Baray, Angkor (Cambodia). *Proceedings of the National Academy of Sciences (USA)* 109:1046-1051. www.pnas.org/cgi/doi/10.1073/pnas.1111282109
- Hodell, D.A., A.J. Turchyn, C.V. Wiseman, J. Escobar, J.H. Curtis, M. Brenner, A. Gilli, F. Anselmetti, D. Ariztegui, L. Perez, A. Schwalb, and E. Brown. 2012. Late glacial temperature and precipitation changes in the lowland Neotropics by tandem measurements of $\delta^{18}\text{O}$ in biogenic carbonate and gypsum hydration water. *Geochimica et Cosmochimica Acta* 77:352-368.
<https://doi.org/10.1016/j.gca.2011.11.026>
- Correa-Metrio, A., M.B. Bush, D.A. Hodell, M. Brenner, J. Escobar, and T. Guilderson. 2011. The influence of abrupt climate change on the ice-age vegetation of the Central American lowlands. *Journal of Biogeography* 39:497-509.
<https://doi.org/10.1111/j.1365-2699.2011.02618.x>
- Pérez, L., P. Frenzel, M. Brenner, J. Escobar, P. Hoelzmann, B. Scharf, and A. Schwalb. 2011. Environmental history of Lago Petén Itzá from the Last Glacial Maximum to the early Holocene (24-10 ka BP). *Journal of Paleolimnology* 46:59-74.
<https://doi.org/10.1007/s10933-011-9514-0>
- Velez, M., J.H. Curtis, J. Escobar, M. Brenner, and M. Popenoe de Hatch. 2011. Environmental and cultural changes in highland Guatemala inferred from Lake Amatitlán sediments. *Geoarchaeology* 26:346-364. <https://doi.org/10.1002/gea.20352>
- Pérez, L., R. Bugja, J. Lorenschat, M. Brenner, J. Curtis, P. Hoelzmann, B. Scharf, and A. Schwalb. 2011. Aquatic ecosystems of the Yucatan Peninsula (Mexico), Belize, and Guatemala. *Hydrobiologia* 661:407-433. <https://doi.org/10.1007/s10750-010-0552-9>
- Day, M.B., D.A. Hodell, M. Brenner, J.H. Curtis, G.D. Kamenov, T.P. Guilderson, L.C. Peterson, and A.L. Kolata. 2011. Origin of the annual flood pulse in Tonle Sap Lake, Cambodia. *Journal of Paleolimnology* 45:85-99.
<https://doi.org/10.1007/s10933-010-9482-9>

- Van Eaton, A.R., A.R. Zimmerman, J.M. Jaeger, M. Brenner, W.F. Kenney, and J.R. Schmid. 2010. A novel application of radionuclides for dating sediment cores from sandy, anthropogenically disturbed estuaries. *Marine and Freshwater Research* 61:1268-1277. <https://doi.org/10.1071/MF10028>
- Kenney, W.F., M. Brenner, J.H. Curtis, and C.L. Schelske. 2010. Identifying sources of organic matter in sediments of shallow lakes using multiple geochemical variables. *Journal of Paleolimnology* 44:1039-1052. <https://doi.org/10.1007/s10933-010-9472-y>
- Pérez, L., R. Bugja, J. Massafarro, P. Steeb, R. van Geldern, P. Frenzel, M. Brenner, B. Scharf, and A. Schwalb. 2010. Post-Columbian environmental history of Lago Petén Itzá, Guatemala. *Revista Mexicana de Ciencias Geológicas* 27:490-507. http://www.scielo.org.mx/scielo.php?script=sci_arttext&pid=S1026-87742010000300007
- Pérez, L., J. Lorenschat, M. Brenner, B. Scharf, and A. Schwalb. 2010. Extant freshwater ostracodes (Crustacea: Ostracoda) from Lago Petén Itzá, Guatemala. *International Journal of Tropical Biology and Conservation/Revista de Biología Tropical* 58(3):871-895. https://www.scielo.sa.cr/scielo.php?script=sci_arttext&pid=S0034-77442010000300007
- Schelske, C.L., E.F. Lowe, W.F. Kenney, L.E. Battoe, M. Brenner, and M.F. Coveney. 2010. How anthropogenic darkening of Lake Apopka induced benthic light limitation and forced the shift from macrophyte to phytoplankton dominance. *Limnology and Oceanography* 55:1201-1212. <https://doi.org/10.4319/lo.2010.55.3.1201>
- Mueller, A.D, F.S. Anselmetti, D. Ariztegui, M. Brenner, J.H. Curtis, J. Escobar, A. Gilli, D.A. Grzesik, D.A. Hodell, T.P. Guilderson, S. Kutterolf, and M.L. Plötze. 2010. Late Quaternary palaeoenvironment of northern Guatemala: evidence from deep drill cores and seismic stratigraphy of Lake Petén Itzá. *Sedimentology* 57:1220-1245. <https://doi.org/10.1111/j.1365-3091.2009.01144.x>
- Mueller, A.D., G.A. Islebe, F.S. Anselmetti, D. Ariztegui, M. Brenner, D.A. Hodell, I. Hajdas, Y. Hamann, G.H. Haug, and D.J. Kennett. 2010. Recovery of the forest ecosystem in the tropical lowlands of northern Guatemala after disintegration of Classic Maya polities. *Geology* 38:523-526. <https://doi.org/10.1130/G30797.1>
- Pérez, L., J. Lorenschat, R. Bugja, M. Brenner, B. Scharf and A. Schwalb. 2010. Distribution, diversity and ecology of modern freshwater ostracodes (Crustacea), and hydrochemical characteristics of Lago Petén Itzá, Guatemala. *Journal of Limnology* 69:146-159. <https://doi.org/10.3274/JL10-69-1-14>
- Escobar, J., J.H. Curtis, M. Brenner, David A. Hodell, J.A. Holmes. 2010. Isotope measurements of single ostracod valves and gastropod shells for climate reconstruction: evaluation of within-sample variability and determination of

optimum sample size. *Journal of Paleolimnology* 43:921-938.
<https://doi.org/10.1007/s10933-009-9377-9>

Bush, M.B., A. Correa-Metrio, D.A. Hodell, M. Brenner, F.S. Anselmetti, D. Ariztegui, A.D. Mueller, J.H. Curtis, D. Grzesik, C. Burton, and A. Gilli. 2009. Re-evaluation of climate change in lowland Central America during the last glacial maximum using new sediment cores from Lake Petén Itzá, Guatemala. P. 113-128, In: F. Vimeux, F. Sylvestre, and M. Khodri (eds), *Past climate variability in South America and Surrounding Regions*. https://doi.org/10.1007/978-90-481-2672-9_5

Kamenov, G.D., M. Brenner, and J.L. Tucker. 2009. Anthropogenic versus natural control on trace element and Sr-Nd-Pb isotope stratigraphy in peat sediments of southeast Florida (USA), ~1500 AD to present. *Geochimica et Cosmochimica Acta* 73:3549-3567. <https://doi.org/10.1016/j.gca.2009.03.017>

Gilli, A., D.A. Hodell, G.D. Kamenov, and M. Brenner. 2009. Geological and archaeological implications of strontium isotope analysis of exposed bedrock in the Chicxulub crater basin, northwestern Yucatán, Mexico. *Geology* 37:723-726.
<https://doi.org/10.1130/G30098A.1>

Escobar, J., D.G. Buck, M. Brenner, J.H. Curtis, and N. Hoyos. 2009. Thermal stratification, mixing, and heat budgets of Florida lakes. *Fundamental and Applied Limnology (Archiv für Hydrobiologie)* 174(4):283-293. <https://doi.org/10.1127/1863-9135/2009/0174-0283>

Mueller, A.D., G. Islebe, M.B. Hillesheim, D. Grzesik, F.S. Anselmetti, D. Ariztegui, M. Brenner, J.H. Curtis, D.A. Hodell, J.A. McKenzie, and K. Venz-Curtis. 2009. Climate drying and associated forest decline in the lowlands of northern Guatemala during the late Holocene. *Quaternary Research* 71:133-141.
<https://doi.org/10.1016/j.yqres.2008.10.002>

Donar, C., E.F. Stoermer, and M. Brenner. 2009. The Holocene paleolimnology of Lake Apopka, Florida. *Nova Hedwigia, Beiheft* 135:58-71.

Brenner, M., and J. Escobar. 2009. Ontogeny of aquatic ecosystems. Pp. 456-461, In, *Encyclopedia of Inland Waters* (G. Likens, ed.). Elsevier, Oxford, UK.
<https://doi.org/10.1016/B978-012370626-3.00205-2>

Hodell, D.A., F.S. Anselmetti, D. Ariztegui, M. Brenner, J.H. Curtis, A. Gilli, D.A. Grzesik, T.J. Guilderson, A.D. Müller, M.B. Bush, A. Correa-Metrio, J. Escobar, and S. Kutterolf. 2008. An 85-ka record of climate change in lowland Central America. *Quaternary Science Reviews* 27:1152-1165
<https://doi.org/10.1016/j.quascirev.2008.02.008>

- Escobar, J., T.J. Whitmore, M. Brenner, J.H. Curtis, and W.F. Kenney. 2008. Thecamoebians as bioindicators in Florida lakes. *Journal of Paleolimnology*. <https://doi.org/10.1007/s10933-008-9195-5>
- Anselmetti, F.S., D.A. Hodell, D. Ariztegui, M. Brenner, and M. Rosenmeier. 2007. Quantification of soil erosion rates related to ancient Maya deforestation. *Geology* 35:915-918. <https://doi.org/10.1130/G23834A.1>
- Brenner, M., J.M. Smoak, D.A. Leeper, M. Streubert, and S.M. Baker. 2007. Radium-226 accumulation in Florida freshwater mussels. *Limnology and Oceanography* 52:1614-1623. <https://doi.org/10.4319/lo.2007.52.4.1614>
- Hodell, D.A., M. Brenner, and J.H. Curtis. 2007. Climate and cultural history of the northeastern Yucatan Peninsula, Quintana Roo, Mexico. *Climatic Change* 83:215-240. <https://doi.org/10.1007/s10584-006-9177-4>
- Whitmore, T.J., M. Brenner, K.V. Kolasa, W.F. Kenney, M.A. Riedinger-Whitmore, and J.H. Curtis. 2006. Inadvertent alkalization of a Florida lake caused by increased nutrient and solute loading to its watershed. *Journal of Paleolimnology* 36:353-370. <https://doi.org/10.1007/s10933-006-9000-2>
- Brenner, M. T.J. Whitmore, M.A. Riedinger-Whitmore, B. DeArmond, D.A. Leeper, W.F. Kenney, J.H. Curtis, and B. Shumate. 2006. Geochemical and biological consequences of groundwater augmentation in lakes of west-central Florida (USA). *Journal of Paleolimnology* 36:371-383. <https://doi.org/10.1007/s10933-006-9008-7>
- Hodell, D.A., F.S. Anselmetti, M. Brenner, and D. Ariztegui, and the PISDP Scientific Party. 2006. The Lake Peten-Itza Scientific Drilling Project. *Scientific Drilling* 3:25-29. DOI: [10.2204/iodp.sd.3.02.2006](https://doi.org/10.2204/iodp.sd.3.02.2006)
- DeArmond, B.S. M. Brenner, W.F. Kenney, D.A. Leeper, J. M. Smoak, J.H. Curtis, B.C. Shumate, and D.G. Buck. 2006. Radium-226 accumulation in sediments of a groundwater-augmented lake near Tampa, Florida, USA. *Verh. Internat. Verein. Limnol.* 29:1275-1279. <https://doi.org/10.1080/03680770.2005.11902887>
- Anselmetti, F.S., D. Ariztegui, D.A. Hodell, A. Gilli, M.B. Hillesheim, M. Brenner, J.A. McKenzie and A.D. Mueller. 2006. Late Quaternary climate-induced lake level variations in Lake Petén Itzá, Guatemala, inferred from seismic stratigraphic analysis. *Palaeogeography, Palaeoclimatology, Palaeoecology* 230:52-69. <https://doi.org/10.1016/j.palaeo.2005.06.037>
- Brenner, M. D.A. Hodell, J. H. Curtis, W.F. Kenney, B. Gu, J.M. Newman, and B.W. Leyden. 2006. Mechanisms for organic matter and phosphorus burial in sediments of a shallow, subtropical, macrophyte-dominated lake. *Journal of Paleolimnology* 35:129-148. <https://doi.org/10.1007/s10933-005-7881-0>

- Riedinger-Whitmore, M.A., T.J. Whitmore, M. Brenner, A. Moore, J.M. Smoak, J.H. Curtis, and C.L. Schelske. 2005. Cyanobacterial proliferation is a recent response to eutrophication in many Florida lakes: a paleolimnological assessment. *Lake and Reservoir Management* 21:423-435.
<https://www.tandfonline.com/doi/abs/10.1080/07438140509354447>
- Buck, D.G., M. Brenner, D.A. Hodell, J.H. Curtis, J.B. Martin, and M. Pagani. 2005. Physical and chemical properties of hypersaline Lago Enriquillo, Dominican Republic. *Verh. Internat. Verein. Limnol.* 29(2):725-731.
DOI: [10.1080/03680770.2005.11902774](https://doi.org/10.1080/03680770.2005.11902774)
- Hillesheim, M.B., D.A. Hodell, B.W. Leyden, M. Brenner, J.H. Curtis, F.S. Anselmetti, D. Ariztegui, D.G. Buck, T.P. Guilderson, M.F. Rosenmeier, and D.W. Schnurrenberger. 2005. Lowland neotropical climate change during the late deglacial and early Holocene. *Journal of Quaternary Science* 20:363-376.
<https://doi.org/10.1002/jqs.924>
- Schelske, C.L., E.F. Lowe, L.E. Battoe, M. Brenner, M.F. Coveney, and W.F. Kenney. 2005. Abrupt biological response to hydrologic and land-use changes in Lake Apopka, Florida, USA. *Ambio* 34:192-198.
<https://doi.org/10.1579/0044-7447-34.3.192>
- Hodell, D.A., M. Brenner, and J.H. Curtis. 2005. Terminal Classic drought in the northern Maya Lowlands inferred from multiple sediment cores in Lake Chichancanab (Mexico). *Quaternary Science Reviews* 24:1413-1427.
<https://doi.org/10.1016/j.quascirev.2004.10.013>
- Hodell, D.A., M. Brenner, J.H. Curtis, R. Medina-Gonzalez, M.F. Rosenmeier, T.P. Guilderson, E.I. Chan-Can, and A. Albornaz-Pat. 2005. Climate change on the Yucatan Peninsula during the Little Ice Age. *Quaternary Research* 63:109-121.
<https://doi.org/10.1016/j.yqres.2004.11.004>
- Rosenmeier, M.F., M. Brenner, W.F. Kenney, T.J. Whitmore, and C.M. Taylor. 2004. Recent eutrophication in the southern basin of Lake Petén Itzá, Guatemala: human impact on a large tropical lake. *Hydrobiologia* 511:161-172.
<https://doi.org/10.1023/B:HYDR.0000014038.64403.4d>
- Hodell, D.A., R.L. Quinn, M. Brenner, and G. Kamenov. 2004. Spatial variation of strontium isotopes ($^{87}\text{Sr}/^{86}\text{Sr}$) in the Maya region: a tool for tracking ancient human migration. *Journal of Archaeological Science* 31:585-601.
<https://doi.org/10.1016/j.jas.2003.10.009>

- Brenner, M., C.L. Schelske, and W.F. Kenney. 2004. Inputs of dissolved and particulate ^{226}Ra to lakes and implications for ^{210}Pb dating recent sediments. *Journal of Paleolimnology* 32:53-66. <https://doi.org/10.1023/B:JOPL.0000025281.54969.03>
- Brenner, M., D.A. Hodell, J.H. Curtis, M.F. Rosenmeier, F.S. Anselmetti, and D. Ariztegui. 2003. Paleolimnological approaches for inferring past climate change in the Maya region: recent advances and methodological limitations. P. 45-75, In A. Gómez-Pompa, M.F. Allen, S.L. Fedick, and J.J. Jiménez-Osornio (eds.), *The Lowland Maya Area: Three Millennia at the Human-Wildland Interface*. Haworth Press, Inc., New York.
- Rosenmeier, M.F., D.A. Hodell, M. Brenner, J. H. Curtis, and T. P. Guilderson. 2002. A 4000-year lacustrine record of environmental change in the southern Maya lowlands, Peten, Guatemala. *Quaternary Research* 57:183-190. <https://doi.org/10.1006/qres.2001.2305>
- Kenney, W., M. N. Waters, C.L. Schelske, and M. Brenner. 2002. Sediment records of phosphorus-driven shifts to phytoplankton dominance in shallow Florida lakes. *Journal of Paleolimnology* 27:367-377. http://lueci.clas.ufl.edu/files/Kenney_et_al_2002.pdf
- Brenner, M., Rosenmeier, M.F., D.A. Hodell, and J. H. Curtis. 2002. Paleolimnology of the Maya Lowlands: long-term perspectives on interactions among climate, environment, and humans. *Ancient Mesoamerica* 13:141-157. <https://doi.org/10.1017.S0956536102131063>
- Popenoe de Hatch, E. Ponciano, T. Barrientos Q., M. Brenner, and C. Ortloff. 2002. Climate and technological innovation at Kaminaljuyu, Guatemala. *Ancient Mesoamerica* 13:103-114. <https://doi.org/10.1017.S0956536102131087>
- Brenner, M., Rosenmeier, M.F., D.A. Hodell, and J. H. Curtis. 2002. Paleoclima de la región Maya: síntesis del conocimiento basado en registros paleolimnológicos. *Los Investigadores de la Cultura Maya* 10 (Tomo 1):248-261. Universidad Autónoma de Campeche.
- Riedinger, M.A., M. Steinitz-Kannan, W.M. Last, and M. Brenner. 2002. A ~6100 ^{14}C yr record of El Niño activity from the Galápagos Islands. *Journal of Paleolimnology* 27:1-7. <https://doi.org/10.1023/A:1013514408468>
- Rosenmeier, M.F., D.A. Hodell, M. Brenner, J.H. Curtis, J.B. Martin, F. Anselmetti, D. Ariztegui, and T.P. Guilderson. 2002. Influence of vegetation change on watershed hydrology: implications for paleoclimatic interpretation of lacustrine $\delta^{18}\text{O}$ records. *Journal of Paleolimnology* 27:117-131. <https://doi.org/10.1023/A:1013535930777>

- Brenner, M., M. F. Rosenmeier, D. A. Hodell, J. H. Curtis, F. Anselmetti, and D. Ariztegui. 2002. Limnología y paleolimnología de Petén, Guatemala. *Revista Universidad del Valle de Guatemala* 12:2-9.
- Brenner, M., D.A. Hodell, J.H. Curtis, M. Rosenmeier, M.W. Binford, and M.B. Abbott. 2001. Abrupt climate change and pre-Columbian cultural collapse. Pp. 87-103, In V. Markraf (ed.), *Interhemispheric Climate Linkages*. Academic Press.
- Huang, Y., F.A. Street-Perrott, S.E. Metcalfe, M. Brenner, M. Moreland, and K.H. Freeman. 2001. Climate change as the dominant control on glacial-interglacial variations in C₃ and C₄ plant abundance. *Science* 293:1647-1651.
<https://doi.org/10.1126/science.1060143>
- Hodell, D.A., M. Brenner, J. H. Curtis, and T. P. Guilderson. 2001. Solar forcing of drought frequency in the Maya lowlands. *Science* 292:1367-1370.
<https://doi.org/10.1126/science.1057759>
- Brenner, M., C.L. Schelske, and L.W. Keenan. 2001. Historical rates of sediment and nutrient accumulation in marshes of the Upper St. Johns River Basin, Florida, USA. *Journal of Paleolimnology* 26:241-257. <https://doi.org/10.1023/A:1017578330641>
- Curtis, J.H., M. Brenner, and D.A. Hodell. 2001. Climate change in the circum-Caribbean (late Pleistocene-to-Present) and implications for regional biogeography. Pp. 35-54, In C.A. Woods and F.E. Sergile (eds.), *Biogeography of the West Indies*. CRC Press, Boca Raton, FL.
- Brenner, M., B.W. Leyden, M.W. Binford, and D.A. Hodell. 2001. Historia ecológica de la región Maya. Pp. 245-247, In, R. Primack, R. Rozzi, P. Feinsinger, R. Dirzo, and F. Massardo, *Fundamentos de Conservación Biológica: Perspectivas latinoamericanas*. Fondo de Cultura Económica, Mexico.
- Hodell, D.A., M. Brenner, and J.H. Curtis. 2000. Climate change in the northern American tropics since the last ice age: implications for environment and culture. P. 13-38, In D.L. Lentz (ed.), *Imperfect Balance: Landscape transformations in the Precolumbian Americas*. Columbia University Press, N.Y.
- Brenner, M., T.J. Whitmore, Song X., Long R., D.A. Hodell, and J.H. Curtis. 2000. Sediment records from Qilu Hu and Xingyun Hu, Yunnan Province, China: late Pleistocene to Present. P. 619-624, In E. H. Gierlowski-Kordesch and K. R. Kelts (eds.), *Lake Basins Through Space and Time*, American Association of Petroleum Geologists Studies in Geology 46.
- Brenner, M., J.S. Smoak, M.S. Allen, C.L. Schelske, and D.A. Leeper. 2000. Biological accumulation of ²²⁶Ra in a groundwater-augmented Florida lake. *Limnology and Oceanography* 45:710-715. <https://doi.org/10.4319/lo.2000.45.3.0710>

- Kolata, A.L., M.W. Binford, M. Brenner, J.W. Janusek, and C. Orloff. 2000. Environmental thresholds and the empirical reality of state collapse: a response to Erickson (1999). *Antiquity* 74:424-426.
- Brenner, M., B.W. Leyden, J.H. Curtis, R. M. Medina-Gonzalez, and B.H. Dahlin. 2000. Un registro de 8,000 años del paleoclima del noroeste de Yucatan, Mexico. *Revista de la Universidad Autonoma de Yucatan* 213:52-65.
- Brenner, M., L. Keenan, S.J. Miller, and C.L. Schelske. 1999. Spatial and temporal patterns of sediment and nutrient accumulation in shallow lakes of the upper St. Johns River Basin, Florida. *Wetlands Ecology and Management* 6:221-240.
<https://doi.org/10.1023/A:1008408030256>
- Brenner, M., T.J. Whitmore, M.A. Lasi, J. E. Cable, P. H. Cable, and C.L. Schelske. 1999. A multi-proxy trophic state reconstruction for shallow Orange Lake, Florida, USA: possible influence of aquatic macrophytes on limnetic nutrient concentrations. *Journal of Paleolimnology* 21:215-233. <https://doi.org/10.1023/A:1008079500375>
- Higuera-Gundy, A., M. Brenner, D.A. Hodell, J.H. Curtis, B.W. Leyden, and M.W. Binford. 1999. A 10,300 ¹⁴C-year record of climate and vegetation change from Haiti. *Quaternary Research* 52:159-170.
<https://doi.org/10.1006/qres.1999.2062>
- Brenner, M., T.J. Whitmore, J.H. Curtis, D.A. Hodell, and C.L. Schelske. 1999. Stable isotope ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) signatures of sedimented organic matter as indicators of historic lake trophic state. *Journal of Paleolimnology* 22:205-221.
<https://doi.org/10.1023/A:1008078222806>
- Curtis, J.H., M. Brenner, and D. A. Hodell. 1999. Climate change in the Lake Valencia Basin, Venezuela, ~12,600 yr BP to present. *The Holocene* 9:609-619.
<https://doi.org/10.1191/095968399669724431>
- Hodell, D.A., M. Brenner, S.L. Kanfoush, J.H. Curtis, J.S. Stoner, Song X., Wu Y., and T.J. Whitmore. 1999. Paleoclimate of southwestern China for the past 50,000 yr inferred from lake sediment records. *Quaternary Research* 52:369-380.
<https://doi.org/10.1006/qres.1999.2072>
- Curtis, J.H., M. Brenner, D. A. Hodell, R. A. Balsler, G. A. Islebe, and H. Hooghiemstra. 1998. A multi-proxy study of Holocene environmental change in the Maya Lowlands of Peten, Guatemala. *Journal of Paleolimnology* 19:139-159.
<https://doi.org/10.1023/A:1007968508262>
- Leyden, B.W., M. Brenner, and B.H. Dahlin. 1998. Cultural and climatic history of Cobá, a lowland Maya City in Quintana Roo, Mexico. *Quaternary Research* 49: 111-122.
<https://doi.org/10.1006/qres.1997.1941>

- Steinitz-Kannan, M., M.A. Riedinger, W.M. Last, M. Brenner, and M.C. Miller. 1998. Un registro de 6000 años de manifestaciones intensas del fenómeno de El Niño en sedimentos de lagunas de las Islas Galápagos. *Bull. Inst. fr. études andines* 27:581-592.
- Brenner, M., C.L. Schelske, and T.J. Whitmore. 1997. Radium-226 stratigraphy in Florida lake sediments as an indicator of human disturbance. *Verh. Internat. Verein. Limnol.* 26: 809-813.
<https://doi.org/10.1080/03680770.1995.11900829>
- Steinitz-Kannan, M., M. A. Riedinger, W. Last, M. Brenner and M.C. Miller. 1997. Un registro de 6000 años de manifestaciones intensas del fenómeno de El Niño en sedimentos de lagunas de las islas Galápagos. P. 79-88, In Cadier E. and Galarrage R. (Eds.), Seminario Internacional "Consecuencias Climáticas e Hidrológicas del Evento El Niño a Escala Regional y Local". Memorias Técnicas. ORSTOM/ INAMHI.
- Abbott, M.B., M.W. Binford, M. Brenner, and K.R. Kelts. 1997. A 3500 ¹⁴C yr high-resolution record of water-level changes in Lake Titicaca, Bolivia/Peru. *Quaternary Research* 47:169-180. <https://doi.org/10.1006/qres.1997.1881>
- Binford, M.W., A.L. Kolata, M. Brenner, J. Janusek, M.T. Seddon, M. B. Abbott, and J.H. Curtis. 1997. Climate variation and the rise and fall of an Andean civilization. *Quaternary Research* 47:235-148. <https://doi.org/10.1006/qres.1997.1882>
- Whitmore, T.J., M. Brenner, Jiang Z., J.H. Curtis, A.M. Moore, D.R. Engstrom, and Wu Y. 1997. Water quality and sediment geochemistry in lakes of Yunnan Province, southern China. *Environmental Geology* 32:45-55.
<http://dx.doi.org/10.1007/s002540050192>
- Whitmore, T.J., M. Brenner, and C.L. Schelske. 1996. Highly variable sediment distribution in shallow, wind-stressed lakes: a case for sediment mapping surveys in paleolimnological studies. *Journal of Paleolimnology* 15:207-221.
<https://doi.org/10.1007/BF00213041>
- Islebe, G., H. Hooghiemstra, M. Brenner, J.H. Curtis, and D.A. Hodell. 1996. A Holocene vegetation history from lowland Guatemala. *The Holocene* 6:265-271.
<https://doi.org/10.1177/095968369600600302>
- Whitmore, T.J., M. Brenner, J.H. Curtis, B.H. Dahlin, and B.W. Leyden. 1996. Holocene climatic and human influences on lakes of the Yucatan Peninsula, Mexico: an interdisciplinary, palaeolimnological approach. *The Holocene* 6:273-287.
<https://doi.org/10.1177/095968369600600303>
- Gu, B., C.L. Schelske, and M. Brenner. 1996. Relationships between sediment and plankton isotope ratios ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) and primary productivity in Florida lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 53:875-883.

<https://doi.org/10.1139/f95-248>

- Brenner, M., T.J. Whitmore, and C.L. Schelske. 1996. Paleolimnological evaluation of historical trophic state conditions in hypereutrophic Lake Thonotosassa, Florida, USA. *Hydrobiologia* 331:143-152. <https://doi.org/10.1007/BF00025415>
- Curtis, J.H., D.A. Hodell, and M. Brenner. 1996. Climate variability on the Yucatan Peninsula (Mexico) during the past 3500 years, and implications for Maya cultural evolution. *Quaternary Research* 46:37-47. <https://doi.org/10.1006/qres.1996.0042>
- Binford, M.W., M. Brenner, and B.W. Leyden. 1996. Paleoecology and Tiwanaku Ecosystems. P. 89-108, In A. Kolata (ed.), *Tiwanaku and its Hinterland: Archaeology and Paleoecology of an Andean Civilization*, 1 Agroecology. Smithsonian Institution Press.
- Leyden, B.W., M. Brenner, T.J. Whitmore, J.H. Curtis, D.R. Piperno, and B.H. Dahlin. 1996. A record of long- and short-term climatic variation from northwest Yucatan: Cenote San Jose Chulchaca. P. 30-50, In S.L. Fedick (ed.), *The Managed Mosaic: Ancient Maya Agriculture and Resource Use*. University of Utah Press, Salt Lake City.
- Brenner, M. 1995. Comment: A call for paleolimnology studies in the tropics. *Journal of Paleolimnology* 13:89-92. <https://doi.org/10.1007/BF00678114>
- Hodell, D.A., J.H. Curtis, and M. Brenner. 1995. Possible role of climate in the collapse of Classic Maya civilization. *Nature* 375:391-394. <https://doi.org/10.1038/375391a0>
- Brenner, M., R. Medina Gonzalez, and C. Zetina Moguel. 1995. Water resources of the Yucatan Peninsula, Mexico: special concerns and management priorities. *Land and Water*, November/December: 18-20.
- Brenner, M., T.J. Whitmore, J.H. Curtis, and C.L. Schelske. 1995. Historical ecology of a hypereutrophic Florida lake. *Lake and Reservoir Management* 11:255-271. <https://doi.org/10.1080/07438149509354207>
- Brenner, M. 1994. Lakes Salpeten and Quexil, Peten, Guatemala, Central America. Pp. 377-380, In E. Gierlowski-Kordesch and K. Kelts (eds.), *Global Geological Record of Lake Basins*, Vol. 1. Cambridge University Press.
- Whitmore, T.J., M. Brenner, and Song X. 1994. Environmental implications of the late Quaternary diatom history from Xingyun Hu, Yunnan Province, China. *Memoirs of the California Academy of Sciences* 17:525-538.
- Brenner, M., J.H. Curtis, A. Higuera-Gundy, D.A. Hodell, G.A. Jones, M.W. Binford, and K.T. Dorsey. 1994. Lake Miragoane, Haiti (Caribbean). Pp. 403-405, In E.

Gierlowski-Kordesch and K. Kelts (eds.), Global Geological Record of Lake Basins, Vol. 1. Cambridge University Press.

- Whitmore, T.J., M. Brenner, D.R. Engstrom, and Song X. 1994. Accelerated soil erosion in watersheds of Yunnan Province, China. *Journal of Soil and Water Conservation* 49:67-72. (Selected for Honorable Mention Award by the Soil and Water Conservation Society).
- Brenner, M., A.J. Peplow, and C.L. Schelske. 1994. Disequilibrium between ^{226}Ra and supported ^{210}Pb in a sediment core from a shallow Florida lake. *Limnology and Oceanography* 39:1222-1227. <https://doi.org/10.4319/lo.1994.39.5.1222>
- Schelske, C.L., A. Peplow, M. Brenner, and C.N. Spencer. 1994. Low-background gamma counting: applications for ^{210}Pb dating of sediments. *Journal of Paleolimnology* 10:115-128. <https://doi.org/10.1007/BF00682508>
- Leyden, B.W., M. Brenner, D.A. Hodell, and J.H. Curtis. 1994. Orbital and internal forcing of climate on the Yucatan Peninsula for the past ca. 36 ka. *Palaeogeography, Palaeoclimatology, Palaeoecology* 109:193-210. [https://doi.org/10.1016/0031-0182\(94\)90176-7](https://doi.org/10.1016/0031-0182(94)90176-7)
- Song, X., Wu, Y., Jiang, Z., Long, R., Li, B., M. Brenner, T.J. Whitmore, D.R. Engstrom, and A. Moore. 1994. Paleolimnological studies on the limestone district in central Yunnan, China. Yunnan Science and Technology Publishing, Kunming, PRC. 114 p, 10 plates.
- Brenner, M., T.J. Whitmore, M.S. Flannery, and M.W. Binford. 1993. Paleolimnological methods for defining target conditions in lake restoration: Florida case studies. *Lake and Reservoir Management* 7:209-217. <https://doi.org/10.1080/07438149309354272>
- Leyden, B.W., M. Brenner, D.A. Hodell, and J.H. Curtis. 1993. Late Pleistocene climate in the Central American lowlands. *American Geophysical Union Geophysical Monograph* 78:165-178. [10.1029/GM078p0165](https://doi.org/10.1029/GM078p0165)
- Binford, M.W., M. Brenner, and D.R. Engstrom. 1992. Temporal sedimentation patterns in the nearshore littoral of Lago Huiñaimarca. Pp. 27-36, In C. Dejoux and A. Iltis (eds.), *Lake Titicaca: A Synthesis of Limnological Knowledge*. Kluwer Academic Publishers, The Hague. Spanish - Binford, M.W., M. Brenner, and D.R. Engstrom. 1991. Patrones de sedimentación temporal en la zona litoral del Huiñaimarca. Pp. 47-58, In C. Dejoux and A. Iltis (eds.) *El Lago Titicaca: síntesis del conocimiento limnológico actual*. ORSTOM, Paris.
- Fisher, M.M., M. Brenner, and K.R. Reddy. 1992. A simple, inexpensive piston corer for

collecting undisturbed sediment/water interface profiles. *Journal of Paleolimnology* 7:157-161. <https://doi.org/10.1007/BF00196870>

Long R., Li B., M. Brenner, and Song. X. 1991. A study of late Pleistocene to Holocene vegetation in Jilu lake area of central Yunnan. *Yunnan Geology* 10:105-118.

Whitmore, T.J., M. Brenner, B.E. Rood, K.E. Japy. 1991. Deoxygenation of a Florida lake during winter mixing. *Limnology and Oceanography* 36:577-585.
<https://doi.org/10.4319/lo.1991.36.3.0577>

Brenner, M., K. Dorsey, Song X., Wang Z., Long R., M.W. Binford, T.J. Whitmore, and A.M. Moore. 1991. Paleolimnology of Qilu Hu, Yunnan Province, China. *Hydrobiologia* 214:333-340. <https://doi.org/10.1007/BF00050968>

Hodell, D.A., J.H. Curtis, G.A. Jones, A. Higuera-Gundy, M. Brenner, M. W. Binford, and K. Dorsey. 1991. Reconstruction of Caribbean climate change over the past 10,500 years. *Nature* 352:790-793. [10.1038/352790a0](https://doi.org/10.1038/352790a0)

Brenner, M., M.W. Binford and E.S. Deevey. 1990. Lakes. Pp. 364-391, In R.L. Myers and J.J. Ewel (eds.), *Ecosystems of Florida*. University of Central Florida Press, Orlando.

Brenner, M., B.W. Leyden, and M.W. Binford. 1990. Recent sedimentary histories of shallow lakes in the Guatemalan savannas. *Journal of Paleolimnology* 4:239-252.
<https://doi.org/10.1007/BF00239697>

Binford, M.W. and M. Brenner. 1989. Resultados de estudios del primer año de la limnología en los ecosistemas de Tiwanaku. Pp. 213-236, In A.L. Kolata (ed.), *Arqueología de Lukurmata, Vol. II*. Instituto Nacional de Arqueología y Producciones Puma Punku. La Paz, Bolivia.

Brenner M., and M.W. Binford. 1988. Relationships between concentrations of sedimentary variables and trophic state in Florida lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 45:294-300. DOI:[10.1139/f88-035](https://doi.org/10.1139/f88-035)

Binford, M.W. and M. Brenner. 1988. Reply to comment by Benoit and Hemond. *Limnology and Oceanography* 33:304-310.
<https://doi.org/10.4319/lo.1988.33.2.0304>

Brenner, M. and M.W. Binford. 1988. A sedimentary record of human disturbance from Lake Miragoane, Haiti. *Journal of Paleolimnology* 1:85-97.
<https://doi.org/10.1007/BF00196066>

- Deevey, E.S., M. Brenner, A.M. Moore, M.W. Binford, K.T. Dorsey, Song X., Wang Z., and Hu Z. 1988. Paleolimnology and limnology of Qilu Hu, Tonghai County, Yunnan -preliminary results. *Journal of Yunnan University* 10 (supplement): 57-62.
- Moore, A.M., M. Brenner, M.W. Binford, E.S. Deevey, and Ou X. 1988. Field notes on a paleolimnological expedition to five lakes on the Yunnan plateau. *Journal of Yunnan University* 10 (supplement): 28-36.
- Binford, M.W., M. Brenner, T.J. Whitmore, A. Higuera-Gundy, E.S. Deevey and B.W. Leyden. 1987. Ecosystems, paleoecology and human disturbance in subtropical and tropical America. *Quaternary Science Reviews* 6:115-128.
[https://doi.org/10.1016/0277-3791\(87\)90029-1](https://doi.org/10.1016/0277-3791(87)90029-1)
- Binford, M.W. and M. Brenner. 1986. Dilution of ^{210}Pb by organic sedimentation in lakes of different trophic states, and application to studies of sediment-water interactions. *Limnology and Oceanography* 31:584-595.
<https://doi.org/10.4319/lo.1986.31.3.0584>
- Deevey, E.S., M.W. Binford, M. Brenner, and T.J. Whitmore. 1986. Sedimentary records of accelerated nutrient loading in Florida lakes. *Hydrobiologia* 143:49-53.
<https://doi.org/10.1007/BF00026644>
- Brenner, M. and M.W. Binford. 1986. Material transfer from water to sediment in Florida lakes. *Hydrobiologia* 143:55-61. <https://doi.org/10.1007/BF00026645>
- Brenner, M. 1983. Paleolimnology of the Peten Lake District, Guatemala II. Mayan population density and sediment and nutrient loading of Lake Quexil. *Hydrobiologia* 103:205-210. <https://doi.org/10.1007/BF00028453>
- Deevey, E.S., M. Brenner, and M.W. Binford. 1983. Paleolimnology of the Peten Lake District, Guatemala III. Late Pleistocene and Gamblian environments of the Maya area. *Hydrobiologia* 103:211-216. <https://doi.org/10.1007/BF00028454>
- Deevey, E.S., M. Brenner, M.S. Flannery, and G.H. Yezdani. 1980. Lakes Yaxha and Sacnab, Peten, Guatemala: Limnology and hydrology. *Archiv für Hydrobiologie Supplement* 57:419-460.
- Deevey, E.S., G.B. Deevey, and M. Brenner. 1980. Structure of zooplankton communities in the Peten lake district, Guatemala. Pp. 669-678, In W.C. Kerfoot (ed.), *Evolution and ecology of zooplankton communities*. Univ. Press New England, Hanover, NH, 793 p.
- Deevey, E.S., D.S. Rice, P.M. Rice, H.H. Vaughan, M. Brenner, and M.S. Flannery. 1979. Mayan urbanism: Impact on a tropical karst environment. *Science* 206:298-306. DOI: [10.1126/science.206.4416.298](https://doi.org/10.1126/science.206.4416.298)

Sunderlin, J.B., M. Brenner, M. Castagna, J. Hirota, R.W. Menzel, and O.A. Roels. 1975. Comparative growth of hardshell clams (*Mercenaria mercenaria* Linné and *Mercenaria campechiensis* Gmelin) and their F1 cross in temperate, subtropical, and tropical natural waters and in a tropical artificial upwelling mariculture system. Proceedings of the Annual Meeting of the World Mariculture Society 6 (1-4):169-183. Blackwell Publishing Ltd.

Miscellaneous Publications:

Martínez-Abarca, R., L. Pérez, M. Brenner, F. Schenk, J. Obrist-Farner, A. Correa-Metrio, T. Bauersachs, and A. Schwalb. 2024. Climate, environment and human history in lowland Central America: Insights from Guatemalan lake sediments. Past Global Changes (PAGES). <https://doi.org/10.22498/pages.32.2.80>

Suárez-Mozo N.Y., M. Brenner, W.F. Kenney, M. Díaz Asencio, J.H. Curtis, M.A. Aquino-Lopez, R.E. Castillo-Cupul, E. Guerra-Castro, and N Simões. 2023. Historical molluscs from Río Lagartos coastal lagoon, Mexico. v1.2. Caribbean OBIS Node. Dataset/Occurrence. <https://ipt.iobis.org/caribbeanobis/resource?r=historicalmollusc斯里lagartomexico&v=1.2>

Brenner, M., and T.J. Whitmore. 2023. New Co-Editors-in-Chief for the *Journal of Paleolimnology*. *Journal of Paleolimnology* 69:185-189. <https://doi.org/10.1007/s10933-023-00277-w>

Thayer, J., J. Leary, C. Prince, and M. Brenner. 2020. Lake trophic state indices and implications for Florida lake management. *Aquatics* 42(2): 22-27.

Hoyer, M.V., D.E. Canfield, and M. Brenner. 2017. A beginner's guide to water management—muck: causes and corrective actions. UF/IFAS Information Circular 112, UF/IFAS Fisheries and Aquatic Science School of Forest Resources and Conservation Gainesville, Florida. 13 p. DOI: [10.32473/edis-fa200-2017](https://doi.org/10.32473/edis-fa200-2017)

Brenner, M. 2016. Climate and environment of the Maya Lowlands: then and now. *Institute of Maya Studies Explorer* vol. 45 (16).

Morgan, M., J.C. Lohse, K. Cardona, C. Frederick, M. Brenner, and J. Curtis. 2014. Resultados Preliminares de la Temporada 2011-2012 del Proyecto de Reconocimiento de Sitios Tempranos en la Ladera Occidental de Guatemala. Pp. 589-602, In B. Arroyo, L. Mendez Salinas and A. Rojas (eds.), *Procedimientos del XXVII Simposio de Investigaciones Arqueologicas en Guatemala*.

- Lohse, J.C., K. Cardona, T. Williams, V. Smith, J. Curtis, M. Brenner, and M. Morgan. In press. Del Preclásico al Postclásico: Datos Ambientales del Lago de Amatitlán. Procedimientos del XXVIII Simposio de Investigaciones Arqueologicas en Guatemala.
- Brenner, M. and L. Pérez. 2016. Lakes. Pp. 204-205, In W.R.T. Witschey (ed.), Encyclopedia of the Ancient Maya. Rowman and Littlefield Publishers, Lanham, MD. 574 pp.
- Pérez, L. and M. Brenner. 2016. Geology. Pp. 161-162, In W.R.T. Witschey (ed.), Encyclopedia of the Ancient Maya. Rowman and Littlefield Publishers, Lanham, MD. 574 pp.
- Dietl, G., S. Kidwell, M. Brenner, D. Burney, K. Flessa, S. Jackson, P. Koch. 2012. Conservation Paleobiology: Opportunities for the Earth Sciences. Report to the Division of Earth Sciences, National Science Foundation. Report of an NSF-Funded Workshop held at the Paleontological Research Institution, Ithaca, New York, June 3-5, 2011. Paleontological Research Institution, Ithaca, New York. 32 pp. (http://www.paleosoc.org/CP_Workshop_Report_Oct_2012.pdf).
- Medina-Gonzalez, R. and M. Brenner. 2010. *Cenotes* of the Yucatán Peninsula, México. Lakeline 30:54-56.
- Brenner, M. 2008. New Co-Editor for Journal of Paleolimnology. Journal of Paleolimnology 40:1-2. <https://doi.org/10.1007/s10933-008-9229-z>
- Brenner, M. 2008. Journal of Paleolimnology: looking back/looking ahead. Journal of Paleolimnology 39:1-3. <https://doi.org/10.1007/s10933-007-9183-1>
- Brenner, M., D.A. Hodell, et al. 2007. Proyecto Paleoambiental Lago Petén-Itzá. PeténItzá 48:24-26. (Spanish).
- Hodell, D.A., F. Anselmetti, D. Ariztegui, M. Brenner, J. Curtis, and members of the Peten-Itza Scientific Drilling Party. 2006. 1.3 km of Sediment Recovered by the Lake Peten Itza Scientific Drilling Party. DOSECC Newsletter 4 (1):1-2. <https://www.limnogeology.ethz.ch/DOSECC.pdf>
- Hodell, D.A., F. Anselmetti, D. Ariztegui, M. Brenner, J. Curtis, and members of the Peten-Itza Scientific Drilling Party. 2006. Preliminary Results of the Lake Peten Itza Scientific Drilling Project. DOSECC Newsletter 4 (2): 5-6. <https://limnogeology.ethz.ch/DOSECC2.pdf>
- Brenner, M., T.J. Whitmore, and C.L. Schelske. 1995. Paleolimnological evaluation of historical trophic state conditions in hypereutrophic Lake Thonotosassa. Florida Lake Management Society Combined Annual Proceedings 1994 & 1995 Conferences. P. 92-109. <https://flms.net/wp-content/uploads/2020/03/1995-1994.pdf>

Brenner, M. 1990. Edward S. Deevey, 1914-1988. *Palaeogeography, Palaeoclimatology, Palaeoecology* 78:383-385.

Rice, P.M., and M. Brenner. 1989. Edward Smith Deevey, Jr., 1914-1988. *Society for Archaeological Sciences Bulletin* 12:2.
<https://socarchsci.org/images/bulletin/SAS1201.pdf>

Livingstone, D.A., and M. Brenner. 1989. Resolution of Respect: Edward S. Deevey, 1914-1988. *Bulletin of the Ecological Society of America* 70:137-140.
https://www.esa.org/wp-content/uploads/sites/94/2022/02/Deevey_ES.pdf

Brenner, M., and P.M. Rice. 1989. Edward Smith Deevey, Jr., December 3, 1914-November 29, 1988. *Radiocarbon* 31:iv-vii
<https://doi.org/10.1017/S0033822200044544>

Book Reviews:

Brenner, M. 1991. Review of S.-O. Ryding and W. Rast (eds.), *The Control of Eutrophication of Lakes and Reservoirs*, The Parthenon Publishing Group, Inc., Park Ridge, NJ. 314 p. *Journal of Environmental Quality* 20:498.

Reports:

Graham, W.D., K.J. Schlatter, A.E. Braswell, M. Brenner, M.J. Cohen, M.J. Deitch, T.G. Gebremicael, A.B. Shortelle, and M.C. Sukop. 2022. *Florida Wildlife Corridor Water Benefits: An Independent Assessment Led by the University of Florida Water Institute*. Submitted to the Archbold Biological Station, Venus, FL 33960. 200 p.

Graham, W., M. Brenner, J.W. Fourqurean, C. Jacoby, and J. Obeysekera. 2020. *Scientific Synthesis to Inform Development of the New Lake Okeechobee System Operating Manual. An Independent Technical Review coordinated by the University of Florida Water Institute*. Submitted to the South Florida Water Management District, West Palm Beach, FL. 133 p.

Brenner, M., W.F. Kenney, and J.H. Curtis. 2010. *Recent Sediment Accumulation in Padgett Creek, Middle St. Johns River Basin*. Financial Project ID No. 241084-2-32-07241084-2-62-07 for the Florida Department of Transportation, Deland, Florida 32724. 20 p. + tables, figures, & appendices.

Brenner, M., J.H. Curtis, T.J. Whitmore, A. Zimmerman, W.F. Kenney, and M. Riedinger-Whitmore. 2009. *Sediment accumulation rate and past water quality in Lochloosa Lake*. Final Report for St. Johns River Water Management District, Palatka, Florida. 57 p. + tables, figures, & appendix.

- Brenner, M., J.H. Curtis, W.F. Kenney, and T.J. Whitmore. 2004. Sedimentation in Davis Lake (Tsala Apopka Chain of Lakes). Final Report for Citrus County Aquatic Services, Lecanto, FL, and Southwest Florida Water Management District, Brooksville, FL. 58 p. + appendices.
- Brenner, M., W.F. Kenney, B. DeArmond, J.H. Curtis, and B. Shumate. 2004. Effect of groundwater augmentation on ^{226}Ra activity in surface sediments and biota of Florida lakes. Final Report for Southwest Florida Water Management District, Brooksville, FL. 44 p.
- Brenner, M., T.J. Whitmore, W.F. Kenney, B. DeArmond, J.H. Curtis, and B. Shumate. 2004. Paleolimnology of four groundwater-augmented lakes (Charles, Crystal, Little Hobbs, Saddleback). Final Report for Southwest Florida Water Management District, Brooksville, FL. 63 p. + appendix.
- Brenner, M., W.F. Kenney, J.H. Curtis, B. Shumate, and B. DeArmond. 2003. Bulk sedimentation and nutrient accumulation rates in Lakes Poinsett and Winder of the Upper St. Johns River Basin. Final Report for St. Johns River Water Management District, Palatka, Florida. 78 p.
- Brenner, M., M.S. Allen, and J.M. Smoak. 2002. Radium-226 in sediments and biota of groundwater-augmented lakes. Final Report for Southwest Florida Water Management District, Brooksville, FL. 12 p. + tables.
- Whitmore, T.J., and M. Brenner. 2002. Paleolimnological characterization of pre-disturbance water quality conditions in EPA-defined Florida Lake Regions. Final Report for the Florida Department of Environmental Protection. 29 p. + tables & appendices.
- Hodell, D.A., M. Brenner, J.H. Curtis, and W.F. Kenney. 2002. Investigation of long-term stability and phosphorus accretion by an aquatic system with a long history of submerged aquatic vegetation dominance. Final Report for South Florida Water Management District, West Palm Beach, FL. 42 p.
- Brenner, M., T.J. Whitmore, J.H. Curtis, and D.A. Hodell. 2002. Lake Hancock: A Multi-Proxy Reconstruction of Past Trophic State Conditions. Final Report for Southwest Florida Water Management District, Brooksville, FL. 31 p. + tables, figures and appendices.
- Hornsby, A., C. Arnold, R. Aalberg, M. Brenner, J. Capece, R. Carriker, L. Christenberry, W.D. Graham, W.T. Haller, F.J. Mazzotti, L.R. Parsons, and W. Seaman, Jr. 1999. Water Resources (Quantity and Quality). P. 57-67, In Florida FIRST Base Papers, Focusing IFAS Resources on Solutions for Tomorrow. University of Florida Institute of Food and Agricultural Sciences, Gainesville, FL.

- Whitmore, T.J., and M. Brenner. 1999. Paleolimnological Reconstruction of Water Quality in Lake Persimmon, Highlands County, Florida. Final Report for Highlands County Board of County Commissioners, Highlands Soil and Water Conservation District, Sebring, FL, and Southwest Florida Water Management District, Brooksville, FL. 59 p.
- Brenner, M. and T.J. Whitmore. 1998. Historical sediment and nutrient accumulation rates and past water quality in Newnans Lake. Final Report for St. Johns River Water Management District, Palatka, FL. 85 p.
- Brenner, M. and T.J. Whitmore. 1998. Historical trophic state conditions in the Hillsborough Reservoir. Final report for City of Tampa Water Dept. Engineering Division, Tampa, FL, and the Southwest Florida Water Management District, Brooksville, FL.
- Brenner, M. and T.J. Whitmore. 1998. Historic Ecology of Lakes in the Upper St. Johns River Basin. Final Report for St. Johns River Water Management District, Palatka, FL. 71 p.
- Brenner, M. and T.J. Whitmore. 1998. Paleolimnological Reconstruction of Water Quality for Lakes Dosson, Halfmoon and Round in Hillsborough County, Florida. Final Report for Southwest Florida Water Management District, Brooksville, FL. 158 p.
- Whitmore, T.J., and M. Brenner. 1997. Historic water quality assessment of Little Lake Jackson, Highlands County, Florida. Final report prepared for the Southwest Florida Water Management District, Brooksville, FL.
- Brenner, M. 1996. Site selection: selecting lakes and coring sites within lakes. P. 2-1 to 2-4, In, D. Porcella (EPRI Project Manager), Protocol for estimating historic atmospheric mercury deposition. Electric Power Research Institute (EPRI) Final Report TR-106768 3297.
- Brenner, M. and T.J. Whitmore. 1996. Historical sediment and nutrient accumulation rates and past water quality in Orange Lake. Final Report for St. Johns River Water Management District, Palatka, FL. 121 p.
- Whitmore, T.J., and M. Brenner. 1996. Sedimentary analyses and historical assessment. Section IX, In, Lake Mariana Diagnostic/Feasibility Study. Southwest Florida Water Management District, Polk County Water Resources Division.
- Brenner, M. 1996. Bulk sedimentation and nutrient accumulation rates in lakes of the Upper St. Johns River Basin. Final Report for St. Johns River Water Management District, Palatka, FL. 110 p.

- Brenner, M., and C.L. Schelske. 1995. Historical sedimentation and nutrient storage rates in the Blue Cypress Marsh Conservation Area. Final Report. Special Publication SJ95-SP3, St. Johns River Water Management District, Palatka, FL. 177 p.
- Whitmore, T.J., and M. Brenner. 1995. Historic water quality assessment of selected lakes in the Winter Haven chain of lakes. Final report prepared for the Southwest Florida Water Management District, Brooksville, FL. 99 p.
- Brenner, M., C.L. Schelske, and A.J. Peplow. 1994. Historical sedimentation and nutrient storage rates in the Blue Cypress Marsh Conservation Area, Part I. Final Report prepared for the St. Johns River Water Management District.
- Whitmore, T.J., and M. Brenner. 1994. Assessment of historical changes in water quality and sedimentation rates in Lake Thonotosassa. Final report prepared for the Southwest Florida Water Management District. 78 p.
- Whitmore, T.J., and M. Brenner. 1993. Sedimentary analyses and historical assessment of Lake Marianna, Polk Co., Florida. Final report prepared for the Southwest Florida Water Management District. 100 p.
- Brenner, M. and T.J. Whitmore. 1992. Lake Parker Sediments and Historical Ecology. Final report prepared for the Southwest Florida Water Management District. 49 p.
- Brenner, M. and T.J. Whitmore. 1992. Lake Hollingsworth Sediments and Historical Ecology. Final report prepared for the Southwest Florida Water Management District. 53 p.
- Brenner, M. and T.J. Whitmore. 1992. Clear Lake sediment mapping and analysis. Final report prepared for the Southwest Florida Water Management District. 46 p.
- Brenner, M., M.M. Fisher and K.R. Reddy. 1991. Sediment Mapping and Characterization. In, Lake Maggiore Environmental Assessment Phase II. Final Report prepared by CH2M Hill for the City of St. Petersburg. 41 p + appendix.
- Brenner, M., and T.J. Whitmore. 1991. Lake Seminole sediment characterization and analysis. Final report prepared for the Southwest Florida Water Management District. 73 p.
- Brenner, M., and T.J. Whitmore. 1991. Collection and analysis of a sediment core taken from Lake Lucerne. Phase I report to the United States Geological Survey (Tampa Office). 19 p.
- Reddy, K.R. et al. 1989. Lake Okeechobee phosphorus dynamics study. Biogeochemical processes in sediments. Annual Report prepared for the South Florida Water Management District, West Palm Beach, Florida. 154 p. + appendix.

- Reddy, K.R., D.A. Graetz, M. Brenner, M.M. Fisher, D. Ivanoff, O. Olila, and C.D. Pollman. 1988. Internal nutrient budget for Lake Apopka. Task 1. Physico-chemical properties of Lake Apopka sediments. Prepared for the St. Johns Water Management District, Palatka, Florida. 125 p.
- Binford, M.W., M. Brenner, and B.W. Leyden. 1988. Paleolimnology of Tiwanaku Ecosystems: results of second-year studies. Report to Dr. Alan Kolata (University of Illinois at Chicago) for consulting done under NSF Project BNS-8607541. 33 p. + appendix.
- Binford, M.W., and Mark Brenner. 1987. Results of first-year studies of the limnology of Tiwanaku ecosystems. Report to Dr. Alan Kolata (University of Illinois at Chicago) for consulting done under NSF project BNS-8607541. 25 p. + appendix.
- Deevey, E.S. and M. Brenner. 1978. Sedimentary history of Spanish Pond. Appendix E, In, L.D. Harris (ed.), *El Pantano de los Españoles*. 10 p. U.S. Natl. Park Serv. CX 5000041666.

Abstracts and Papers Presented:

- Díaz-Asencio, M., M. Brenner, N.Y. Suárez-Mozo, J. Curtis, C. Solís, M. Rodríguez-Ceja, L.W. Daessle, V. Papiol, and C. Enriquez. 2024. Flooded mangroves as a record of sediment accretion and carbon burial rates during Holocene sea-level rise in Rio Lagartos, northern Yucatan Peninsula, Mexico. Presented at the EGU General Assembly, 14-19 April 2024, Vienna Austria.
- Breitenbach, S.F.M, J. Longman, S. Umbo, S. Modestou, O. Kwiecien, S.A. Carolin, D.H. James, C. Peraza Lope, M. Brenner, and D. Hodell. 2024. Stalagmites with ‘drip cups’ – are they suitable for palaeotemperature reconstructions? Presented at the EGU General Assembly, 14-19 April 2024, Vienna Austria.
- Intveld, A., S.F.M. Breitenbach, S.A. Carolin, D.H. James, O. Kwiecien, M. Brenner, C. Peraza Lope, and D.A. Hodell. 2024. Comparison of historical and speleothem (paleo)climate records from northwest Yucatan, Mexico. Presented at the EGU General Assembly, 14-19 April 2024, Vienna Austria.
- Schafer, T.B, A.R. Smyth, M. Brenner, K.R. Reddy, R. Ellis, J. Papacek, and T.Z. Osborne. 2024. Internal phosphorus loading from USJRB lakes. Presented at the 9th biennial UF Water Institute Symposium, 20-21 February 2024, Gainesville, Florida.
- Brenner, M. 2023. Drought and cultural instability. Presented at the 2023 Fryxell Award Symposium: Papers in Honor of Timothy Beach, Part II, at the 88th Society for American Archaeology Meeting, 29 March 29 – 2 April 2023, in Portland, Oregon. (invited)

- Rubio-Sandoval, K., N. Suárez-Mozo, A. Ferreira-Júnior, M. Aquino-López, A. Correa-Metrio, N. Simões, P. Spotorno-Oliveira, S. Wambier Christo, Maria Cristina Souza, Rodolfo José Angulo, M. Brenner, W. Kenney, J. Curtis, R. Martínez-Abarca, A. Schwalb, P. Hoelzmann, M. Blaauw, and L. Pérez. 2023. Moluscos como indicadores paleoambientales en ecosistemas acuáticos del Trópico Americano To be presented at the XXVIII Encontro Brasileiro de Malacologia & XII Congreso Latinoamericano de Malacología Virtual Event, 2-6 October 2023.
- Suárez-Mozo, N., M Brenner, V. Papiol, E. Guerra-Castro, W.F. Kenney, M. Díaz Ascencio, J.H. Curtis, M.A. Aquino-Lopez, C. Enriquez, and N. Simões. 2023. Integrando inventarios históricos y modernos de moluscos en la laguna costera de Río Lagartos. To be presented at the XXVIII Encontro Brasileiro de Malacologia & XII Congreso Latinoamericano de Malacología Virtual Event, 2-6 October 2023.
- Brenner, M. 2023. Lake Sediments: “Time-Traveler” Windows into Past Climate and Environmental Conditions. Presented at the University of Florida Fisheries and Aquatic Sciences Program Seminar Series, University of Florida, Gainesville, Florida 22 September 2023. (invited)
- L. Pérez, C. Chávez, N. Kraatz, M. Schlecht, M. Bonilla-Flores, P. Echeverría-Galindo, R. Martínez- Abarca, F. Charqueño-Celis, S. Cohuo, L. Macario-Gonzalez, M. Caballero, B. Ortega, F. Schenk, S. Kutterolf, M. Brenner, S. Lozano, T. Bauersachs, A. Schwalb. 2023. Adapting in the face of climate and environmental change in the American Tropics: responses of freshwater ostracode communities from ancient Lakes Petén Itzá, Guatemala and Chalco, Mexico during the last 80 ka. Presented at the IODP/ICDP Kolloquium, Leibniz Universität, Hannover, Germany, 29-31 August 2023.
- Suárez-Mozo, N., M. Brenner, W.F. Kenney, M. Diaz-Ascencio, J.H. Curtis, M.A. Aquino-Lopez, E. Guerra-Castro, and N. Simões 2023. Molluscs across space and through time in a hypersaline coastal lagoon, Mexico. Poster presented at the 2nd International Conservation Paleobiology Conference, Gainesville, FL, 17-19 February 2023.
- Suárez-Mozo, N., V. Papiol, C. Enriquez, M. Brenner, and N. Simões. 2022. Molluscs of the hypersaline Rio Lagartos coastal lagoon, southern Gulf of México. Presented at the World Congress of Malacology, Ludwig-Maximilians-Universität Biocenter, Munich, Germany, 1-5 August 2022.
- Pérez, L., N. Kraatz, M. Schlecht, M. Bonilla-Flores, P. Echeverría-Galindo, R. Martínez-Abarca, F. Charqueño-Celis, S. Cohuo, L. Macario-Gonzalez, M. Brenner, F. Schenk, S. Kutterolf, T. Bauersachs, and A. Schwalb. 2022. Species diversity, sex ratio and body size of ostracodes in response to climate change in the northern Neotropics: the record from ancient Lake Petén Itzá, Guatemala. Poster presented at the International Ocean Discovery Program/ International Continental Scientific

Drilling Project Colloquium, GFZ, Potsdam, Germany, 1-3 November 2022.
Scientific Technical Report STR22/07, pp. 54-55.

Perez, L., N. Kraatz, M. Schlecht, M. Bonilla-Flores, P. Echeverria-Galindo, R. Martinez-Abarca, F. Charqueño-Celis, M. Brenner, F. Schenk, T. Bauersachs, and A. Schwalb. 2022. Sex, size and quantity matters in the Neotropics: the ostracode record of ancient Lake Petén Itzá, Guatemala. Presented at the International Association of Limnogeology/International Paleolimnology Association Conference in Bariloche, Argentina, 27 November-1 December 2022.

Waters, M.N., M. Brenner, and J.H. Curtis. Farming, fire and phosphorus led to Late Holocene cyanobacteria blooms in tropical and subtropical lakes. Presented at the International Association of Limnogeology/International Paleolimnology Association Conference in Bariloche, Argentina, 27 November-1 December 2022.

Brenner, M. 2022. History of Paleolimnology on the Yucatan Peninsula. Presented at the Lake Izabal Basin Research Endeavor, International Continental Scientific Drilling Project Workshop, Antigua, Guatemala, 1 August 2022.

Brenner, M. 2022. Lake Sediments on the Yucatan Peninsula: Windows into Past Climate and Environmental Changes in the Neotropics. Presented at the Department of Atmospheric and Environmental Sciences, State University of New York, Albany, NY, 28 October 2022. (invited)

Carolin, S., S. Breitenbach, D. James, J. Baldini, M. Brenner, D. Kennett, T. Spencer, J. Rolfe, J. Nicolson, J. Curtis, and D. Hodell. Analysis of stalagmites collected from the human-occupied caves beneath Mayapán, the political and cultural capital of the Postclassic Maya. Presented at the Karst Record IX Conference, Innsbruck, Austria, 17-20 July 2022.

James, D., S. Carolin, S. Breitenbach, E. Endsley, C. Gallup, M. Brenner, J. Curtis, J. Rolfe, J. Nicolson, and D. Hodell. An ultra-high-resolution seasonal-scale stalagmite palaeoclimate record from the Yucatan Peninsula, spanning the Maya Terminal Classic Period. EGU22-7862. To be presented at the EGU General Assembly, Vienna, Austria & Online, 23-27 May 2022.

Brenner, M. 2021. Importance of the historical perspective in environmental studies. Presented (via zoom) to the School of Natural Resources and Environment 2021 Interdisciplinary Ecology Seminar Series, University of Florida, Gainesville, Florida, 11 October 2021 (invited). <https://www.youtube.com/watch?v=aNV2gcmxcYY>

Brenner, M. 2021. In defense of mud II: what sediments have done for you lately. Presented (via zoom) to the Department of Soil and Water Sciences, University of Florida, Gainesville, Florida, 17 September 2021 (invited). https://ufl.zoom.us/rec/play/S11Zix1jhXNkJ2K_tTzq_Kh3DndKrhoLi66CxUD76p9vhhLFIhch_d_3YAP8Zisw6KJw0oI3RcsHHk.b1WxFXakJ8ipT9H8?startTime=1631904

[207000& x zm rtaid=TR6VFe8WS4yMhbBcByEnag.1661549373289.8b7f2df60e8a8f9ed6f030fbd40e24d8& x zm rhtaid=314](https://doi.org/10.1002/207000&xzm_rtaid=TR6VFe8WS4yMhbBcByEnag.1661549373289.8b7f2df60e8a8f9ed6f030fbd40e24d8&xzm_rhtaid=314)

Paillès, C., F. Sylvestre, A. Rogelet, S. Cohuo, S. Kutterolf, E. Cruz, A. Correa-Metrio, L. Macario, M. Stockhecke, D. Schmid, M. Brenner, J. Curtis, D. Ariztegui, F. Anselmetti, L. Perez, and A. Schwalb. 2021. 400,000 ans d'enregistrement sédimentaire du lac Peten Itza (Guatemala-Amérique Centrale) à partir de l'étude des diatomées et d'autres indicateurs aquatiques. Presented at the 39eme Colloque de l'Association des Diatomistes de Langue Francaise (l'ADLaF). Aix-en-Provence, France, 14-16 September 2021.

Brenner, M. 2020. Wetlands as archives of information about past climate and environment. Presented (via zoom) to the University of Florida Wetlands Club, Gainesville, Florida, 1 December 2020 (invited).

Brenner, M. 2020. Dense human populations, overexploitation of resources, and protracted severe droughts: a recipe for Classic Maya "Collapse." Presented (via zoom) to the Institute of Maya Studies, Miami, Florida, 18 November 2020 (invited).

Zurisadai Rubio-Sandoval, K., A. Correa-Metrio, J.F. Franco-Gaviria, A. Schwalb, P. Hoelzmann, M. Brenner, M. Blaauw, W. Kenney, J. Curtis and L. Pérez. 2020. Freshwater mollusks as paleoenvironmental indicators in Lakes Metzabok and Nahá, Chiapas, Mexico. XI Congreso Latinoamericano de Malacología. On-Line 1-6 November 2020

Whitmore, T.J., M. Brenner, M.A. Riedinger-Whitmore, J.H. Curtis, W.F. Kenney, F.M. Lauterman. 2020. Paleolimnological studies support lake management in Florida USA: a 40-year retrospective, with methods and objectives for the future. Presented at NALMS2020, the North American Lake Management Society Virtual Symposium, 16-20 November 2020.

Brenner, M. 2020. The Lake Peten-Itza Scientific Drilling Project (Guatemala). Presented at the NICA-BRIDGE International Continental Scientific Drilling Program Workshop in Montelimar, Nicaragua, 2-5 March 2020. (invited)

James, D., S. Breitenbach, H. Cheng, A. Hartland, I. Orland, M. Brenner, J. Curtis, C. Gallup, S. Szidat, J. Nicolson, J. Rolfe, A. Mason, G. Henderson, and D. Hodell. 2020. The Maya Terminal Classic Drought replicated in two stalagmites from Columnas Cave, NW Yucatán. EGU General Assembly. EGU2020-18326. <https://doi.org/10.5194/egusphere-egu2020-18326> On-Line, 4-8 May 2020

Zurisadai Rubio Sandoval, K., A. Correa-Metrio, J. Felipe Franco-Gaviria, A. Schwalb, P. Hoelzmann, M. Brenner, M. Blaauw, W. Kenney, J. Curtis, and L. Pérez. 2020. A 500-year record of paleoclimate and paleoenvironment from the Lacandon Forest,

southern Mexico. EGU General Assembly. EGU2020-10897.
<https://doi.org/10.5194/egusphere-egu2020-10897>
On-Line, 4-8 May 2020

Perez, L., M. Bücken, A. Schwalb, J. Buckel, T. Lauke, J. Hoppenbrock, A. Correa-Metrio, M. Bonilla, R. Martínez- Abarca, S. Rodríguez, W. Morales, Ó. Escolero, M. Caballero, S. Lozano, F. Romero, C. Pita, A. Flores, B. Moguel, M. Brenner, J. Curtis, W. Kenney, R. van Geldern, C. Mayr, P. Hoelzmann, J. Massafarro, F. Charqueño, K. Rubio-Sandoval, P. Echeverría, D. Ochoa, C.S. Romero-Oliva, J. García Polo, S. Landois, M. García, A. Chorley. 2020. Ecological effects of sudden drainage of large karst lakes in the Lacandon Maya region, southern Mexico. EGU General Assembly. EGU2020-11490. <https://doi.org/10.5194/egusphere-egu2020-11490>
On-Line, 4-8 May 2020

Yolimar Suárez-Mozo, N., M. Brenner, J. Curtis, C. Solis Rosales, and N. Simões. Reconstrucción del pasado usando sedimentos y moluscos en lagunas costeras de la Península de Yucatán, México. Poster presented at the Séptimo Taller Sobre Espectrometría de Masas con Aceleradores, Instituto de Física, (UNAM) Ciudad De México, México.

Brenner, M. 2019. The dynamic paleoecology of the lowland Neotropics: impacts of climate and humans. Presented in the Department of Biology, Florida State University, Tallahassee, Florida, 18 October 2019. (invited).

Brenner, M. 2019. Inferring past climate and environmental conditions from low-mass stable isotopes ($\delta^{18}\text{O}$, $\delta^{13}\text{C}$, $\delta^{15}\text{N}$) in lake sediments. Presented at the 6th National Symposium on Stable Isotope Ecology, held 23-25 September 2019 at Three Gorges University, Yichang, China. (invited)

Pérez, L., M. Stockhecke, S. Cohuo, L. Macario-González, M. Abstein, P. Hoelzmann, F. Sylvestre, C. Paillés, A. Correa-Metrio, J.H. Curtis, M. Brenner, S. Kutterolf, D. Ariztegui, F. Anselmetti, D. Hodell, and A. Schwalb. 2019. A ~400-ka multi-centennial record from Lake Petén Itzá reveals mechanisms of moisture transport across Central America. Abstract PP31D-1674 presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 December.

Brenner, M. 2019. Ecosystem and cultural collapse. Presented at the 16th Annual Tulane Maya Symposium (*The Center Could Not Hold: The Ancient Maya and Collapse*), held 14-17 February 2019 at Tulane University, New Orleans, LA. (invited)

Brenner, M. 2019. The dynamic paleoenvironment of the Yucatan Peninsula. Presented at the UF Water, Wetlands and Watersheds Seminar, sponsored by the Howard T. Odum Center for Wetlands, The UF Water Institute and the UF Department of Soil &

- Water Sciences, University of Florida, Gainesville, FL, 16 January 2019. (invited).
<http://mbreeze.ifas.ufl.edu/pacowqslphf0/?proto=true>
- Brenner, M. 2018. The past and future of Florida Lakes. Presented at the UF Water Institute Distinguished Scholar Seminar Series, University of Florida, Gainesville, FL, 4 December 2018. (invited)
<https://mediasite.video.ufl.edu/Mediasite/Play/632e895913104ee19a6928c089cfb65c1d>
- Brenner, M. 2018. Environmental history of the Yucatan Peninsula. Presented at the Universidad del Valle, Guatemala City, Guatemala, 8 November 2018. (invited)
- Brenner, M. 2018. Publishing in peer-reviewed journals (an editor's perspective). Presented at the joint International Paleolimnological Association (IPA) and PAGES Early Career Network Event in Stockholm, Sweden, 17 June 2018. (invited)
- Brenner, M. 2018. Paleoenvironmental history of the Yucatan Peninsula. Presented in the Geography and the Environment Department Colloquium, University of Texas, Austin, 26 January 2018. (invited)
- Brenner, M. 2018. Publishing tips for young investigators. Presented at the Workshop on Paleochronology, Campeche, Mexico, 11 January 2018. (invited)
- Brenner, M. 2018. Environmental history of the Yucatan Peninsula. Presented at the Workshop on Paleochronology, Campeche, Mexico, 9 January 2018. (invited)
- Brenner, M. 2017. Paleolimnology. Short course presented at Universidad Quindio, Armenia, Colombia, 4-8 December 2017. (invited)
- Brenner, M. 2017. Inferring Neotropical paleoenvironmental conditions using lake sediments. Presented in the Geosciences and Geological and Petroleum Engineering seminar series at Missouri University of Science and Technology, Rolla, MO, 6 November 2017. (invited)
- Brenner, M. 2017. Water, water everywhere, but not a drop to drink (or use for irrigation, washing, industry, etc.). Guest lecture for Sustainability Course, University of Florida, Gainesville, 24 October 2017. (invited)
- Brenner, M. Humans and aquatic ecosystems. Guest lecture for GLY2038, Sustainability and the Changing Earth, University of Florida, Gainesville, 29 August 2017. (invited)
- Brenner, M. 2017. Karst landscapes. Presented in the graduate studio, Department of Landscape Architecture, 30 August 2017. (invited)
- Brenner, M. 2017. Florida lakes then and now. Presented in the University of Florida Department of Geography Colloquium Series, Gainesville, 16 March 2017. (invited)

- Brenner, M. W.F. Kenney, T.J. Whitmore, M. Riedinger-Whitmore, M. Waters, G. Kamenov, J. Curtis, and J. Escobar. 2017. Recent human impacts on shallow lakes in Florida (USA): a paleolimnological perspective. Presented at the IX International Shallow Lakes Conference, Merida (Mexico), 19-24 February 2017.
- Waters M.N., J.M. Smoak, S. Golladay, M.F. Piehler, and M. Brenner. 2017. Ecological change in response to hydrological change in shallow lakes of the SE USA: Evidence from the sediment record. Presented at the IX International Shallow Lakes Conference, Merida (Mexico), 19-24 February 2017.
- Brenner, M. 2016. Paleoclimate and paleoenvironment of the lowland Maya region, late Pleistocene to present. Presented at the Smithsonian Tropical Research Institute, Panama, 19 October 2016 (invited).
- Brenner, M. 2016. Climate and environment of the Maya Lowlands, then and now. Presented for the Institute of Maya Studies, Inc., at Miami Dade College, Kendall Campus, Miami, Florida, 15 June 2016 (invited).
- Brenner, M. 2015. The history of paleolimnological study in the Maya Lowlands. Presented at the 13th International Paleolimnology Symposium, Lanzhou, China, 4-7 August 2015. (invited keynote lecture).
- Brenner, M. 2015. Publishing advice for early career scientists. Presented at the Early Career Workshop, 13th International Paleolimnology Symposium, Lanzhou, China, 3 August 2015. (invited).
- Brenner, M. 2015. Florida limnology. Presented at the Universidad del Norte, Barranquilla, Colombia, 13 May 2015. (invited – in Spanish)
- Brenner, M. 2015. Tracking environmental history in Florida using lake sediments. Public lecture presented at the Universidad del Norte, Barranquilla, Colombia, 11 May 2015. (invited – in Spanish)
- Brenner, M. 2015. How to be a successful graduate student and publish in high-impact journals. Co-presented with Dr. John Smol (Queen's University, Canada) at the Universidad del Norte, Barranquilla, Colombia, 8 May 2015. (invited – in Spanish)
- Brenner, M. 2015. A history of paleolimnological research in the Lowland Maya region. Public lecture presented at the Universidad del los Andes, Bogota, Colombia, 6 May 2015. (invited – in Spanish).
- Brenner, M. 2014. What we do and don't know about Lowland Maya paleoclimate and paleoenvironment from lake sediment records, and implications for planning for the future. Presented at the IHOPE (Integrated History and Future of People on Earth) Maya meeting, Tempe, Arizona, 13-14 November 2014. (invited)

- Brenner, M. 2014. Deforestation, soil erosion, and drought: a perfect formula for Maya cultural collapse. Presented at Augustana College, Sioux Falls, South Dakota, 3 October 2014. (invited)
- Brenner, M. 2014. El colapso Maya y su relación con el cambio climático. Public lecture presented at the Universidad del Norte, Barranquilla, Colombia, 6 August 2014. (invited – in Spanish)
- Lohse, J.C., V.C. Smith, J. Curtis, and M. Brenner. 2014. A record of late Holocene volcanic activity from highland Guatemala. Presented at the 79th Annual meeting of the Society for American Archaeology, Austin, Texas, 23-27 April 2014.
- Brenner, M., J.H. Curtis, D.A. Hodell. 2014. Future directions for studying past climate in the Maya region. Presented at the 79th Annual meeting of the Society for American Archaeology, Austin, Texas, 23-27 April 2014.
- Blair, S.W., M. Brenner, and G.D. Kamenov. 2013. Effects of climate change and drought on trace metal distribution in sediments of two shallow Florida lakes. Presented at the Geological Society of America Annual Meeting & Exposition, Denver, CO, 27-30 October 2013.
- Douglas P., M. Pagani, T. Eglinton, M. Brenner, J. Curtis, D. Hodell and A. Breckenridge. 2013. A large reduction in the residence time of plant waxes in tropical forest soils due to ancient Maya land use. Presented at the Goldschmidt Conference, Florence, Italy, 25-30 August 2013.
- Mays, J.L., M. Brenner, J.H. Curtis, K. Curtis, D.A. Hodell, A. Correa-Metrio, J. Escobar, 7, A.L. Dutton, A.R. Zimmerman, and T.P. Guilderson. 2013. Bulk and compound-specific isotope analysis of long-chain *n*-alkanes from a 85,000 year sediment core from Lake Petén Itzá, Guatemala. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 9-13 December 2013.
- Brenner, M. 2013. Climate, environment and humans in the lowland Maya region: a paleolimnological perspective. Presented at the Institute for Advanced Study, University of Minnesota Symposium “Resilience and Sustainability: What Are We Learning from the Maya and Other Ancient Cultures? Minneapolis, MN, 7-9 November 2013. (invited)
- Fontana, L., D.C. Bicudo, A.L. Spadano Albuquerque, D.M. Bonotto, and M. Brenner. 2013. Eutrophication history during the past 90 years at an urban reservoir (Guarapiranga Reservoir, southeast Brazil). Presented at the XIV Congresso Brasileiro de Limnologia, 8-12 September 2013, Bonito, Brazil. *Awarded First Place for the Harald Sioli Prize.

- Brenner, M. 2013. Understanding past climate and environment: insights from lake sediments. Presented at the UF School of Natural Resources and Environment seminar, 17 September 2013.
- Brenner, M. 2013. Long-term interactions among climate, environment and humans in the Neotropics: insights from lake sediment cores. Presented at the NALMS Southeastern Lakes and Watershed Management 22nd Annual Conference and the Florida Lake Management Society's 24th Annual Conference and Technical Symposium, Daytona Beach, FL, 17-20 June 2013. (invited)
- Brenner, M. 2013. Paleolimnological approaches for tracking trophic state changes in Florida lakes. Presented at the Chinese-American Workshop on Global Changes and Management of Lakes and Watersheds, Nanjing, China 31 May-1 June, 2013. (invited).
- Brenner, M. 2013. Documenting long-term environmental changes in neotropical watersheds using paleolimnology. Presented at the International Workshop on Aquatic Ecology and Restoration, Shenyang Agriculture University, Shenyang, China 26-28 May 2013. (invited).
- Brenner, M. 2013. Climate, environment and the ancient Maya: the story from lake sediment archives. Presented at the Institute of Maya Studies, Inc., affiliate of the Museum of Science. Miami, FL, 15 May 2013. (invited).
- Brenner, M. 2013. Applications of paleolimnology for managing Florida lakes. Presented at Utah State University, Logan UT, 27 February 2013. (invited).
- Brenner, M. 2013. Climate and human influences on watersheds of the Yucatan Peninsula: long-term perspectives. Presented at Utah State University, Logan UT, 26 February 2013. (invited).
- Brenner, M. Reconstructing Holocene environments on the Yucatan Peninsula. Presented at the symposium "Bruce H. Dahlin Memorial Session Part 2: Adaptations and Maladaptations to Environmental Change" at the 77th Annual meeting of the Society for American Archaeology, Memphis, Tennessee, 18-22 April 2012.
- Brenner, M. 2012. Deep lake drilling in Guatemala – insights into past climate and environmental change. Presented at the UF Fisheries and Aquatic Sciences, 14 September 2012.
- Brenner, M. Climate, environment and the Maya. 2012. Presented via skype at New College, Sarasota, Florida, 4 April 2012. (invited).
- Brenner, M. 2012. Past climate changes of North and Central America. Presented at the Lake Chalco Drilling Workshop, Mexico City, Mexico, 4-8 March 2012. (invited)

- Brenner, M. 2012. Climate and environmental change, and the collapse of Maya civilization: a history revealed in lake sediments. The 30th Annual Connell Lecture, sponsored by the Clyde Eugene Connell Visiting Lecture Program & the Valdosta State University Department of Biology. Presented at Valdosta State University, Valdosta, GA, 16 February 2012. (invited)
- Brenner, M. 2012. Climate variability and human disturbance in the lowland Neotropics over the past 85,000 years. Presented to the Department of Geophysical Sciences, the University of Chicago, Chicago, IL, 3 February 2012. (invited).
- Brenner, M. 2011. Climate and humans as drivers of long-term environmental instability in the Neotropics. University of Florida Biology Department seminar, Gainesville, FL, 27 September 2011. (invited).
- Escobar Jaramillo, J.H., M.I. Velez, J. H. Curtis, M. Brenner, and M. Popenoe de Hatch. Environmental and cultural changes in highland Guatemala inferred from Lake Amatitlan sediments. 2011. XIV Congreso Latinoamericano de Geología, XIII Congreso Colombiano de Geología. Medellín, Colombia, 29 August-2 September 2011. Memorias p. 431.
- Brenner, M. A brief history of Paleolimnology in the Yucatan Peninsula. 2011. XIV Congreso Latinoamericano de Geología, XIII Congreso Colombiano de Geología. Medellín, Colombia, 29 August-2 September 2011. Memorias p. 431-432. (Keynote address).
- Buck, D., M. Brenner, and M. Cohen. In-stream nutrients in a small tropical catchment dominated by shifting cultivation. 2011. XIV Congreso Latinoamericano de Geología, XIII Congreso Colombiano de Geología. Medellín, Colombia, 29 August-2 September 2011. Memorias p. 488.
- Brenner, M. 2011. What I've learned about publishing research articles as editor of the *Journal of Paleolimnology*. University of Tennessee, Knoxville, TN, 21 January 2011. (invited).
- Brenner, M. 2011. 85,000 years of environmental change on the Yucatan Peninsula. Presented to the Department of Earth and Planetary Sciences, Department of Geography, and the University of Tennessee Initiative for Quaternary Paleoclimate Research. University of Tennessee, Knoxville, TN, 20 January 2011. (invited).
- Douglas, P., M. Pagani, T. Eglinton, M. Brenner, J. Curtis, and D. Hodell. 2011. The process of leaf-wax transport to tropical lake sediments and its significance for inferring past changes in climate and carbon cycling. Geophysical Research Abstracts Vol. 13, EGU2011-9588-3.
- Brenner, M., D.A. Hodell, J.H. Curtis, A.D. Mueller, F.S. Anselmetti, D. Ariztegui, J. Escobar, A. Gilli, D. Grzesik, and T.P. Guilderson. 2010. Paleoclima y

- paleoambiente de las tierras bajas Mayas. Presented at the international congress on “Culturas Americanas y su ambiente: perspectivas desde la zooarqueología, paleobotánica, y etnobiología, Mérida, Yucatán, México, 1-5 November 2010. (In Spanish).
- Brenner, M. Una introducción a la limnología con un enfoque sobre los lagos de Florida. Presented at the Universidad Autonoma de Yucatán, Mérida, México, 3 November 2010. (invited - In Spanish).
- Brenner, M. 2010. Unintended consequences of groundwater pumping: Ra-226 enrichment of Florida lakes and landscapes. Presented at the University of Braunschweig, Braunschweig, Germany, 9 September 2010.
- Douglas, P., M. Pagani, T. Eglinton, M. Brenner, J. Curtis, and D. Hodell. 2010. Differences between ages of lipids and sediment in tropical lake cores and implications for lipid stable isotope paleoenvironmental proxies: Gordon Research Conference - Organic Geochemistry.
- Brenner, M., D.A. Hodell, J.H. Curtis, A.D. Mueller, F.S. Anselmetti, D. Ariztegui, J. Escobar, A. Gilli, D. Grzesik, and T.P. Guilderson. 2010. Paleoclimate and paleoenvironment of the Maya Lowlands. Presented at the 75th Anniversary Meeting of the Society for American Archaeology, St. Louis, Missouri, 14-18 April 2010. (invited).
- Brenner, M. 2010. Climate and land use changes in the Maya Lowlands over recent millennia. Presented at the University of Florida, Department of Agricultural and Biological Engineering Seminar, 1 March 2010. (invited).
- Gentry, C.L., J.H. Curtis, and M. Brenner. 2009. Does the amount effect exert primary control on $\delta^{18}\text{O}$ of speleothems from low-latitude caves? *Eos Trans., AGU* 90(52), Fall Meet. Suppl., Abstract PP41B-1519.
- Douglas, P., M. Pagani, M. Brenner, J.H. Curtis, and D.A. Hodell. 2009. Compound-specific δD values across a tropical precipitation gradient: implications for low-latitude paleoclimate reconstructions. *Eos Trans., AGU* 90(52), Fall Meet. Suppl., Abstract PP13B-1399.
- Brenner, M. 2010. Historical ecology of the Yucatan Peninsula inferred from lake sediment cores. Presented at the St. Johns River Water Management District, Palatka, FL, 7 January 2010. (invited).
- Day, M.B., D.A. Hodell, M. Brenner, J.H. Curtis, G.D. Kamenov, T.P. Guilderson, L.C. Peterson, and A.L. Kolata. 2009. Inception of the annual flood pulse in Tonle Sap Lake, Cambodia between 5,000 and 3,000 Yr BP. Presented at the 11th International Paleolimnology Symposium, Guadalajara, Mexico, 14-18 December 2009.

- Blair, S.W., M. Brenner, G. Kamenov, and W.F. Kenney. 2010. A record of recent trace metal accumulation in Newnans Lake, Florida, USA. Poster presented at the 11th International Paleolimnology Symposium, Guadalajara, Mexico, 14-18 December 2009.
- Brenner, M., T.J. Whitmore, M. Riedinger-Whitmore, W.F. Kenney, and J.H. Curtis. 2009. Using Florida lake sediments to infer past water quality and evaluate prospects for lake restoration. Presented at the Lakes Education/Action Drive (LEAD) meeting in Lakeland, Florida, 13 October 2009. (invited).
- Brenner, M. 2009. Climate, environment and resources of the Yucatan Peninsula, present and past. Presented at the University of Florida, Center for Latin American Studies Colloquium, 17 September 2009. (invited).
- Brenner, M. 2009. Biology of Florida lakes. Presented at the Aquatic Weed Control Short Course, Coral Springs, Florida, 5-7 May 2009. (invited).
- Brenner, M. Lake sediment cores: insights into past environmental change and cultural collapse in the Maya region. Presented in the Department of Anthropology Seminar Series, Yale University, New Haven, CT, 31 March 2009. (invited).
- Gentry, C., D.A. Hodell, J.H. Curtis, M. Brenner, and C. Gallup. 2008. Centennial-scale climate variability during the early deglaciation (19 to 16 ka) expressed in speleothem oxygen isotopes from the Yucatan Peninsula, Mexico. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, Eos Trans. AGU, 89(53), 15-19 December 2008. Fall Meet. Suppl., Abstract PP11C-1402.
- Day, M.B., D.A. Hodell, M. Brenner, J.H. Curtis, G.D. Kamenov, A.L. Kolata, L.C. Peterson, and T.P. Guilderson. Mid- to late Holocene (5-3 ka) origin of the modern Tonle Sap Lake system, Cambodia. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, Eos Trans. AGU, 89(53), 15-19 December 2008. Fall Meet. Suppl., Abstract H53C-1062.
- Brenner, M., W.F. Kenney, J.M. Smoak, B.S. DeArmond, D.A. Leeper, and C.L. Schelske. 2008. Groundwater pumping and irradiation of the Florida (USA) landscape. Presented at the 4th International Symposium on In Situ Nuclear Metrology as a Tool for Radioecology, Rabat, Morocco, 13-16 October 2008. (Keynote lecture). Book of Abstracts:27.
- Brenner, M., D.A. Hodell, J.H. Curtis, J. Escobar, F. Anselmetti, D. Ariztegui, A. Muller, and D. Grzesik. Proyecto Paleoambiental Lago Peten-Itza: nuevas perspectivas sobre el paleoambiente y el paleoclima de Centroamerica. Presented at the I Congreso Nacional Ciénagas y Lagunas de Colombia: Homenaje al Dr. Thomas van der Hammen, medellin, Colombia, 24-26 September 2008. (Keynote lecture in Spanish). Book of Abstracts:14-15.

- Douglas, P., M. Pagani, D. Hodell, and M. Brenner. 2008. Comparison of biomarker hydrogen and shell-carbonate oxygen isotope proxies in Lake Chichancanab sediment (Yucatan Peninsula, Mexico): implications for the Terminal Classic Maya Collapse. Geological Society of America.
- Brenner, M. Long-term climate variability in the Maya region. Presented at the Oak Hammock Institute for Learning in Retirement (ILR) Course, 25 March 2008. (invited).
- Brenner, M. Metodos para evaluar cambios paleoambientales. Presented (Spanish) at the Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, 9 March 2008.
- Brenner, M. Unintended consequences of groundwater pumping: Ra-226 enrichment of Florida lakes and landscapes. Presented at the St. Johns River Water Management District, Palatka, FL, 6 March 2008.
- Brenner, M., D.A. Hodell, J.H. Curtis, F. Anselmetti, D. Ariztegui, and E. Endsley. 2008. *Cenotes* and caves of the Maya region: natural archives of paleoenvironmental information. Presented at the Tulane University Maya Symposium on “Sacred Cenotes, Hidden Caverns: Rituals, Beliefs, and Everyday Activities Related to Caves and Cenotes Among the Maya.” Tulane University, New Orleans, LA, 15-17 February 2008. (invited).
- Brenner, M. 2008. The Lake Peten-Itza drilling project. Presented at the “Water, Wetlands & Watersheds Seminar, University of Florida, 30 January 2008. (invited).
- Mays, J.L., M. Brenner, M.B. Bush, A. Correa, J.H. Curtis, and D.A. Hodell. 2007. Bulk and compound-specific isotope analysis of long-chain, n-alkanes from an 85-kyr core from Lake Peten-Itza, Guatemala. Presented at the Fall meeting of the American Geophysical Union, San Francisco, CA, December 2006, Eos Trans. AGU, 88(52). Fall Meet. Suppl., Abstract PP43B-1269.
- Smoak, J.M., M. Brenner, D.A. Leeper, J.M. Krest, M.S. Allen, and S.M. Baker. 2007. Radium enrichment in groundwater augmented lakes. Presented at the annual meeting of the North American Lake Management Society (NALMS), Orlando, Florida, 30 October-2 November 2007. NALMS Program Abstracts:71.
- Brenner, M. 2007. Tracking paleoenvironmental change in the Maya region. Presented at the University of Arkansas Department of Geosciences Colloquium, Fayetteville, AR, 12 October 2007. (invited).
- Brenner, M. 2007. Florida lakes: limnological characteristics and management challenges. Presented at the University of Arkansas Department of Geosciences, Fayetteville, AR, 11 October 2007. (invited).

- Brenner, M. et al. Preliminary results of the Lake Peten-Itza drilling program. Presented at the Geological Sciences Seminar, University of Florida, 6 September 2007.
- Endsley, E.A., C.D. Gallup, D.A. Hodell, J.H. Curtis, M. Brenner, C. Gentry, R.L. Edwards, and H. Cheng. 2007. Late Holocene droughts recorded in speleothems from the Maya lowlands of the Yucatan Peninsula, Mexico. Presented at the Joint Assembly of the American Geophysical Union, Acapulco, Mexico, 22-25 May 2007, Eos Trans. AGU 88(23), Jt. Assem. Suppl., Abstract PP43C-08.
- Gamble, V.C., C.D. Gallup, D.A. Hodell, F. Anselmetti, M. Brenner, and D. Ariztegui. 2007. Preliminary U-Th dating of endogenic gypsum from Lake Peten-Itza, Guatemala. Presented at the Joint Assembly of the American Geophysical Union, Acapulco, Mexico, 22-25 May 2007, Eos Trans. AGU 88(23), Jt. Assem. Suppl., Abstract PP43C-03.
- Hodell, D.A., E.T. Brown, F. Anselmetti, D. Ariztegui, M. Brenner, J.H. Curtis, A. Gilli, D. Grzesik, and A.D. Mueller. 2007. Climate change during the last deglaciation in the lowlands of Central America. Presented at the Joint Assembly of the American Geophysical Union, Acapulco, Mexico, 22-25 May 2007, Eos Trans. AGU 88(23), Jt. Assem. Suppl., Abstract PP43C-04.
- Brenner, M. 2007. Basic limnology. Presented at the Aquatic Weed Control Short Course, Coral Springs, Florida, 14-18 May 2007. (invited).
- Brenner, M., D.A. Hodell, and J.H. Curtis. 2007. Holocene climate change in Florida. Presented at the USF/FAU Climate Change Conference, Tampa, Florida, 8-11 May 2007. (invited).
- Brenner, M. Palynological records from lake sediments. Guest lecture in UF Palynology class, 5 April 2007.
- Mueller, A., Anselmetti, F., Ariztegui, D., Brenner, M., Curtis, J., Gilli, A., Hodell, D., McKenzie, J. & Ploetze, M. 2007. Reconstruction of Late Quaternary environmental changes in the lowland neotropics: first results from the Lake Petén Itzá Drilling Project (Guatemala). Presented at the Annual SwissSed Meeting, Fribourg, Switzerland, 27 January 2007.
- Anselmetti, F., Hodell, D., Ariztegui, D., Brenner, M., Curtis, J., Gilli, A., Grzesik, D., Kutterolf, S., Mueller, A. and PISDP scientific party. 2007. An ~85-kyr climate record from the lowland Neotropics (Guatemala): The Lago Petén Itzá Scientific Drilling Project. Presented at the EGU General Assembly, Vienna, Austria, 17 April 2007.
- Anselmetti, F., Hodell, D., Ariztegui, D., Brenner, M., Curtis, J., Gilli, A., Grzesik, D., Kutterolf, S., Mueller, A., 2007, ~85-kyr of climate history from the lowland

Neotropics unraveled by the Lago Petén Itzá Scientific Drilling Project. Presented at the 4th International Limnogeology Congress, Barcelona, Spain, July 2007.

Brenner, M., D.A. Hodell, and members of the Peten-Itza Scientific Drilling Project. 2007. Overview of the Lake Peten-Itza Scientific Drilling Project. Presented at the "Mexico Climate Change Workshop," Merida, Mexico, 8-10 January 2007.

Gentry, C.L., D.A. Hodell, J.H. Curtis, M. Brenner, C. Gallup, and E. Endsley. 2006. Speleothem paleoclimatology of the Last Glacial Maximum and Deglaciation in Yucatan, Mexico. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, Eos Trans. AGU,87(52), December 2006. Fall Meet. Suppl., Abstract PP53A-08.

Kenney, W.F, M. Brenner, and C.L. Schelske. 2006. Do stochastic events affect sedimentation in a shallow phytoplankton-dominated lake? Presented at the 10th International Paleolimnology Symposium, Duluth, MN, 25-29 June 2006. Abstracts:91.

Hodell, D.A., F. Anselmetti, D. Ariztegui, M. Brenner, J.H. Curtis, and members of the Peten-Itza Scientific Drilling Project. 2006. Preliminary results of the Lake Peten-Itza Scientific Drilling Project (PISDP). Presented at the 10th International Paleolimnology Symposium, Duluth, MN, 25-29 June 2006. Abstracts:80.

Hodell, D.A., F. Anselmetti, D. Ariztegui, M. Brenner, J. Curtis, A. Gilli, A. Mueller, and members of the Peten-Itza Scientific Drilling Project. 2006. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 11-15 December 2006. Eos Trans. AGU,87(52). Fall Meet. Suppl., Abstract PP22A-02.

Buck, D.G., M. Brenner, J.H. Curtis, W.M. Last, and D.A. Hodell. 2006. A 2300-year record of Holocene climate variability from Lago Enriquillo, Dominican Republic. Presented at the 10th International Paleolimnology Symposium, Duluth, MN, 25-29 June 2006. Abstracts:10.

Anselmetti, F. Hodell, D., Ariztegui, D., Brenner, M., Mueller, A., 2006, A long history of paleoenvironmental change in the Lowland Neotropics: Initial results from the Lake Petén Itzá Scientific Drilling Project, Guatemala. Presented at the EGU General Assembly, Vienna, Austria, 4 April 2006.

Mueller, A., Anselmetti, F., Hodell, D., Brenner, M., Ariztegui, D., Islebe, G., Grzesik, D., McKenzie, J., Ploetze, M., Hillesheim, M. 2006. Climatic Drying in Mesoamerica Between 2000 and 1000 BC and its Potential Role of Initial Settlement of Early Maya Civilisation in Peten, Guatemala. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 11-15 December 2006. Eos Trans. AGU,87(52). Fall Meet. Suppl., Abstract GC21A-1316.

- Mueller, A., Anselmetti, F., Ariztegui, D., Brenner, M., Hillesheim, M., Hodell, D., McKenzie, 2006, Climate Drying and Forest Decline (~4.0-3.0 cal kyr BP) Preceded Sedentary Maya Occupation in the Lowlands of Petén, Guatemala. Presented at the EGU General Assembly, Vienna, Austria, 4 June 2006.
- Ariztegui, D., Anselmetti, F. S., Hodell, D. A., Brenner, M. & the Scientific Drilling Party. 2006. Reconstructing Late Quaternary environmental change in the lowland Neotropic – The Lake Petén-Itza Drilling Project (January-March 2006). *Terra Nostra*. Presented at the ICDP PASADO Workshop, Rio Gallegos, Argentina, 15-19 March 2006. p. 54.
- Van Eaton, A., A. Zimmerman, M. Brenner, W. Kenney, and J.M. Jaeger. 2006. Reconstruction of disturbance history in Naples Bay, Florida: a combined radiometric/geochemical approach. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 11-15 December 2006. *Eos Trans. AGU*, 87(52). Fall Meet. Suppl., Abstract OS11C-1520.
- Van Eaton, A., A. Zimmerman, J.M. Jaeger, and M. Brenner. 2005. A geochemical record of anthropogenic disturbances in Naples Bay Estuary, Florida. Presented at the Annual Meeting of the Geological Society of America Meeting, Salt Lake City, UT, 16-19 October 2005. Paper No. 131-19.
- Newell, S.D., D.A. Hodell, J.H. Curtis, M. Brenner, and K. Venz-Curtis. 2005. Comparison of vegetation change inferred from palynology and compound-specific carbon isotopes of lipid biomarkers in the Maya Lowlands of Peten, Guatemala. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 5-9 December 2005. *EOS Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract PP41D-01.
- Anselmetti, F.S., D.A. Hodell, D. Ariztegui, M. Brenner, and A.D. Mueller. 2005. Paleoenvironmental history of the lowland Neotropics from Lake Peten-Itza, Guatemala. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 5-9 December 2005. *EOS Trans. AGU*, 86(52), Fall Meet Suppl., Abstract PP21A-1543.
- Mueller, A., Anselmetti, F., Ariztegui, D., Brenner, M., Hillesheim, M., Hodell, D., McKenzie, J., Human-Climate-Environment Interactions in the Maya Lowlands: Evidence from Lake Petén Itzá (Guatemala): Zurich, 19 November 2005, Swiss GeoScience Meeting.
- Anselmetti, F., Ariztegui, D., Brenner, M., Hodell, D., McKenzie, J., 2005, Lago Petén-Itza (Guatemala) as ICDP-drilling target: A sedimentary climate archive spanning several glacial-interglacial cycles: Muscat, Oman, 12 January 2005, IAS Annual Conference.

- Brenner, M., D.A. Hodell, J.H. Curtis, and B.W. Leyden. 2005. Cambios climáticos en la región del Caribe durante los ~36,000 años pasados: implicaciones para la distribución de humedales y fauna acuática. Presented at the V Simposio Internacional de Humedales, Ciénaga de Zapata, Matanzas, Cuba, 6-10 October 2005. Invited (Spanish).
- Brenner, M. 2005. Limnología y paleolimnología en la región Maya (Limnology and paleolimnology of the Maya region). Presented at the Universidad Nacional de Colombia, Bogota, March 2005.
- Riedinger-Whitmore, M. T.J. Whitmore, M. Brenner, C.L. Schelske, J.M. Smoak, and J.H. Curtis. 2005. Threshold responses of cyanobacteria to eutrophication: paleolimnological evidence of alternative stable states in Florida lakes. Presented at the Aquatic Sciences Meeting of the American Society of Limnology and Oceanography, Salt Lake City, Utah, 20-25 February 2005.
- Buck, D.G., M. Brenner, D.A. Hodell, and J.H. Curtis. 2005. A late Holocene record of climate variability from hypersaline Lago Enriquillo, Dominican Republic. Presented at the Aquatic Sciences Meeting of the American Society of Limnology and Oceanography, Salt Lake City, Utah, 20-25 February 2005.
- Escobar, J., M. Brenner, W.F. Kenney, and T.J. Whitmore. 2005. Testate rhizopods as indicators of water quality in Florida lakes. Presented at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, Salt Lake City, Utah, 20-25 February 2005.
- Smoak, J.M., Streubert, M., Leeper, D. and M. Brenner. 2004. Uptake and loss of ^{226}Ra in tissues of freshwater mussels: a reciprocal transplant experiment between two Florida lakes. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 13-17 December 2004. EOS Trans. AGU, 85 (47), Fall Meet. Suppl., Abstract B11A-0135.
- Anselmetti, F. S., D.A. Hodell, D. Ariztegui, M. Brenner, J.H. Curtis, G. Haug, M. B. Hillesheim, and J.A. McKenzie. 2004. The Lake Peten-Itza (Guatemala) drilling project: tracking late Quaternary environmental change in the lowland Neotropics. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 13-17 December 2004. EOS Trans. AGU, 85 (47), Fall Meet. Suppl., Abstract GC51C-1059.
- Hillesheim, M.B., D.A. Hodell, F.S. Anselmetti, D. Ariztegui, M. Brenner, J.H. Curtis, and B.W. Leyden. 2004. Lowland Neotropical climate change during the late deglacial and early Holocene. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 13-17 December 2004. EOS Trans. AGU, 85 (47), Fall Meet. Suppl., Abstract GC51C-1066.

- Hodell, D.A., M. Brenner, J.H. Curtis, and C.D. Gallup. 2004. A comparison of speleothem and lake sediment core $\delta^{18}\text{O}$ records from north-central Yucatan Peninsula, Mexico. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 13-17 December 2004. EOS Trans. AGU, 85 (47), Fall Meet. Suppl., Abstract GC53A-12.
- Anselmetti, F. S., D. Ariztegui, M. Brenner, J.H. Curtis, T. Guilderson, D.A. Hodell, and M.F. Rosenmeier. 2004. Enhanced soil erosion rates in the southern Maya Lowlands: the Lago Salpeten record, Guatemala. Presented at the 32nd International Geological Congress, Florence, Italy, 20-28 August 2004.
- Hodell, D.A., F.S. Anselmetti, D. Ariztegui, M. Brenner, J.H. Curtis, J. Hall, G. Haug, M.B. Hillesheim, and J.A. McKenzie. 2004. The Lake Peten-Itza (Guatemala) drilling project: tracking environmental change in the Neotropics over multiple glacial-interglacial cycles. Presented at the 32nd International Geological Congress, Florence, Italy, 20-28 August 2004.
- Brenner, M. 2004. Ancient and modern interactions between humans and the environment in the Maya Lowlands. Workshop presented at Hamline University, St. Paul, MN, 13 November 2004. (invited).
- Brenner, M. 2004. Long-term climate change on the Yucatan Peninsula and implications for Maya cultural development. Presented at the Maya Society of Minnesota, St. Paul, MN, 12 November 2004. (invited).
- Brenner, M. 2004. Lecture for Cultural Ecology class (Anth 3480) at Hamline University, St. Paul, MN, 12 November 2004. (invited).
- Brenner, M. 2004. Lecture for Topics in Archaeology: The Ancient Maya class (Anth 1980) at Hamline University, St. Paul, MN, 12 November 2004. (invited).
- DeArmond, B.S. M. Brenner, W.F. Kenney, D.A. Leeper, J. M. Smoak, J.H. Curtis, B.C. Shumate, and D.G. Buck. 2004. Radium-226 accumulation in sediments of a groundwater-augmented lake near Tampa, Florida, USA. Presented at the International Association of Theoretical and Applied Limnology (SIL) Congress in Lahti, Finland, 8-14 August 2004.
- Buck, D.G., M. Brenner, D.A. Hodell, J.H. Curtis, J.B. Martin, and M. Pagani. 2004. Physical and chemical properties of hypersaline Lago Enriquillo, Dominican Republic. Presented at the International Association of Theoretical and Applied Limnology (SIL) Congress in Lahti, Finland, 8-14 August 2004.
- Brenner, M. 2004. Water quality – describing what's up down there. Presented at University of Florida IFAS Aquatic Weed Control Short Course, Ft. Lauderdale, FL, 3-7 May 2004. (invited).

- Brenner, M. 2004. Temporal correlation between climate change and the collapse of pre-Columbian cultures: mere coincidence or causal connection? Presented at the Environmental Science and Policy Seminar Series, University of South Florida, St. Petersburg, FL, 15 February 2004. (invited).
- Anselmetti, F. S., D. Ariztegui, M. Brenner, A. Gilli, D. Hodell, and J. A. McKenzie. 2003. Seismic stratigraphy of Lago Petén-Itza, Guatemala: Imaging a continental climate archive spanning several glacial-interglacial cycles? Presented at the 3rd International Congress on Limnogeology, Tucson AZ, 29 March-2 April 2003.
- Brenner, M. 2003. Long-term interactions among climate, environment, and human societies in Mesoamerica. Presented at the 3rd International Congress on Limnogeology, Tucson AZ, 29 March-2 April 2003. (invited plenary address).
- Curtis, J.H., M. Brenner, D. A. Hodell, B.W. Leyden, and M. Popenoe de Hatch. 2003. Lake Amatitlán: a high-resolution archive of late Holocene environmental conditions in the Guatemalan highlands. Presented at the 3rd International Congress on Limnogeology, Tucson AZ, 29 March-2 April 2003.
- Hillesheim, M.B., D. A. Hodell, M. Brenner, J.H. Curtis, D.W. Schnurrenberger F.S., Anselmetti, F. S, and D. Ariztegui. 2003. Sediment cores from Lago Petén-Itza, Guatemala: a site survey for GLAD800 drilling. Presented at the 3rd International Congress on Limnogeology, Tucson AZ, 29 March-2 April 2003.
- Kenney, W.F., C.L. Schelske, B.C. Shumate, and M. Brenner. 2003. Multiple paleolimnological proxies provide a consistent signal of the shift from macrophyte dominance to phytoplankton dominance in Lake Apopka, Florida, USA. Presented at the 3rd International Congress on Limnogeology, Tucson AZ, 29 March-2 April 2003.
- Last, W.M., N.A. Bryxina, K. Baxter, M. Riedinger, and M. Brenner. 2003. Mineralogy, geochemistry and event stratigraphy of Bainbridge Crater Lake, Galápagos Islands. Presented at the 3rd International Congress on Limnogeology, Tucson AZ, 29 March-2 April 2003.
- Rosenmeier, M.F., D.A. Hodell, M. Brenner, J.H. Curtis, J.B. Martin, and T.P. Guilderson. 2003. Climate and hydrology of Lake Salpeten, Guatemala inferred from an isotope model Presented at the 3rd International Congress on Limnogeology, Tucson AZ, 29 March-2 April, 2003.
- Brenner, M. 2003. Origin and limnology of Florida lakes. 2003. Presented at University of Florida IFAS Aquatic Weed Control Short Course, Ft. Lauderdale, FL, 19-22 May, 2003. (invited).
- Newell, S.D., D.A. Hodell, J.H. Curtis, M. Brenner, and M.F. Rosenmeier. 2003. Relative changes in C3 and C4 biomass recorded by carbon isotopes of lipid

- biomarkers in the Maya Lowlands of Peten, Guatemala. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 8-12 December, 2003. EOS Trans. AGU 84 (46), Fall Meet. Suppl., Abstract B52F-01.
- Kenney, W.F., C.L. Schelske, B.C. Shumate, and M. Brenner. 2003. Sediment records of the recent development of phytoplankton dominance in shallow Florida lakes. Presented at the 9th International Paleolimnology Symposium, Espoo, Finland, 24-28 August 2003.
- Brenner, M., C.L. Schelske, and W.F. Kenney. 2003. Groundwater pumping irradiates Florida (USA) landscapes and confounds ²¹⁰Pb dating of recent lake sediments. Presented at the 9th International Paleolimnology Symposium, Espoo, Finland, 24-28 August 2003.
- Hodell, D.A., Brenner, M., Curtis, J.H., Medina-Gonzalez, R.M., Rosenmeier, M.F., and Guilderson, T.P. 2002. The Little Ice Age in Mesoamerica. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 6-10 December, Eos Trans. AGU, 83(47), Fall Meeting Suppl., Abstract PP61B-10.
- Hodell, D.A., M. Rosenmeier, M. Brenner, J.H. Curtis, F. Anselmetti, D. Ariztegui, J. McKenzie, and T. Guilderson. 2001. Human-climate-environment interactions in the Maya lowlands. 21st Symposium in Plant Biology: Lowland Maya Area, Three Millennia at the Human-Wildland Interface. University of California, Riverside, 18-20 January 2001. (invited).
- Brenner, M. 2001. Interactions among climate, environment, and humans on the Yucatan Peninsula. Presented at the Ohio State University Interdisciplinary Research Seminar Program on "Humans and climate: a historical examination of adaptive responses to drought and aridification." Ohio State University, Columbus, 1-2 May 2001. (invited).
- Brenner, M. 2001. Bioacumulacion de radio: complicaciones de una medida de remediacion. Presented (in Spanish) at the Facultad de Medicina Veterinaria y Zootecnia, Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, 16 July 2001. (invited).
- Brenner, M. 2001. Long-term perspectives on climate, environment and humans in the Maya Lowlands. Presented at Department of Geology Colloquium, University of Nebraska, Lincoln, NE, 28 September 2001. (invited).
- Brenner, M. 2001. Aplicaciones de la paleolimnologia. Presented (in Spanish) at the Facultad de Medicina Veterinaria y Zootecnia, Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, 12 November 2001. (invited).
- Brenner, M., M.F. Rosenmeier, D.A. Hodell, and J.H. Curtis. 2001. Paleoclima de la región Maya: síntesis del conocimiento basado en registros paleolimnológicos.

Presented (in Spanish) at the XI Encuentro Internacional: Los Investigadores de la Cultura Maya. Universidad Autónoma de Campeche, Campeche, Mexico, 13-16 November 2001. (invited).

Hodell, D.A., J.H. Curtis, M. Brenner, M.F. Rosenmeier, G. Haug, and T. Guilderson. 2001. Holocene centennial climate variability in the caribbean. Presented at the annual meeting of the Geological Society of America, Boston, MA, 5-8 November 2001.

Brenner, M., J.M. Smoak, W. Kenney, T.J. Whitmore, M.S. Allen, C.L. Schelske, and D.A. Leeper. 2000. Environmental implications of high radium-226 activities in Florida lakes. Presented at the 11th Annual Meeting of the Florida Lake Management Society (FLMS 2000), Duck Key, Florida, 22-25 May 2000.

Brenner, M., D.A. Hodell, J.H. Curtis, M.F. Rosenmeier, F.S. Anselmetti, and D. Ariztegui. 2000. Paleolimnological approaches for inferring past climate change in the Maya region: recent advances and methodological limitations. Presented at the 65th Annual meeting of the Society for American Archaeology, Philadelphia, PA, 5-9 April 2000. (invited).

Brenner, M. Long-term perspectives on climate, environment, and culture on the Yucatán Peninsula. 2000. Presented at the 8th International Symposium on Paleolimnology, Kingston, Ontario, Canada, 20-24 August 2000. (invited keynote address).

Last, W., S. Pooler, R. Belsham, M. Riedinger, M. Brenner, and M. Steinitz-Kannan. 2000. Paleohydrology and paleochemistry of salt lakes of the Galapagos Islands. Presented at the 8th International Symposium on Paleolimnology, Kingston, Ontario, Canada, 20-24 August 2000.

Anselmetti, F., D. Ariztegui, M. Rosenmeier, D. Hodell, M. Brenner, T. Guilderson, and J. McKenzie. 2000. Quantifying human-mediated changes in erosion rate and lacustrine sedimentation in the Maya Lowlands. Presented at the Geological Society of America Meeting in Reno, Nevada, 13-16 November 2000.

Leeper, D.A., M.H. Kelly, M. Brenner, J.M. Smoak, W. Kenney, T.J. Whitmore, M.S. Allen, C.L. Schelske, C.M. Teaf, and B.J. Tuovila. 2000. Radium-226 in central Florida lakes: bioaccumulation and environmental risks. Presented at the 20th Meeting of the North American Lakes Management Society, Miami, FL, 8-10 November 2000.

Riedinger, M., T.J. Whitmore, M. Brenner, J.H. Curtis, and A.M. Moore. 2000. Sedimented algal pigment profiles from Florida lakes: algal community responses to eutrophication. Presented at the 20th Meeting of the North American Lakes Management Society, Miami, FL, 8-10 November 2000.

- Abbott, M. R. Aravena, M. Binford, M. Brenner, D. Rodbell, G. Seltzer, A. Wolfe, and B. Wolfe. 2000. The late Holocene moisture balance of the Bolivian/Peruvian Altiplano: a comparison of the timing of climatic and cultural changes. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 15-19 December 2000. AGU, 81(48), Fall Meet. Suppl., Abstract U62B-02 (invited).
- Hodell, D.A., M. Brenner, J.H. Curtis, and T.P. Guilderson. 2000. Drought frequency in the Maya lowlands. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 15-19 December 2000. Eos Trans. AGU, 81(48), Fall Meet. Suppl., Abstract U62B-01 (invited).
- Smoak, J. M., M. Brenner, M.S. Allen, D.A. Leeper, C.M. Teaf, and B.J. Tuovila. 2000. Elevated Radium-226 in Florida lakes. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 15-19 December 2000. Eos Trans. AGU, 81(48), Fall Meet. Suppl., Abstract B52C-07.
- Rosenmeier, M., D.A. Hodell, M. Brenner, J.H. Curtis, J.B. Martin, F.S. Anselmetti, D. Ariztegui, and T.P. Guilderson. 2000. A 3500-year record of climate change and human disturbance from the southern Maya lowlands, Peten, Guatemala. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 15-19 December 2000. AGU, 81(48), Fall Meet. Suppl., Abstract U61A-05 (invited).
- Cable, J.E., Smoak, J.M., C.L. Schelske, and M. Brenner. 1999. Beryllium-7 as an indicator of lake sediment mixing. Presented at the annual meeting of the American Society of Limnology and Oceanography, Santa Fe, New Mexico, 1-5 February 1999.
- Brenner, M. 1999. Cambios climaticos y las culturas precolombinas. Presented (in Spanish) at the conference "Perspectivas historicas y etnograficas sobre humanos y el ambiente," Universidad del Valle de Guatemala, 8-11 March 1999. (invited).
- Brenner, M. 1999. Paleolimnology of the Maya Lowlands and Andean Altiplano: insights into past climate, environment, and culture. Presented at the Department of Geology, University of Toronto, Toronto, Canada, 8 April 1999. (invited).
- Brenner, M. 1999. Paleolimnology of the Maya Lowlands and Andean Altiplano: insights into past climate, environment, and culture. Presented at the Department of Biology, Queen's University, Kingston, Ontario, Canada, 9 April 1999.
- Anselmetti, F.S., D. Ariztegui, J.A. McKenzie, D.A. Hodell, M. Brenner, J.H. Curtis, and M.F. Rosenmeier. 1999. High-resolution seismic survey of the Petén Lake District, northern Guatemala: implications for human disturbance and Maya cultural evolution. Presented at the Commission of Oceanography and Limnology (COL/KOL) Annual Symposium, "Looking into the Sediment Subsurface of Lakes," Switzerland, 7-8 October 1999.

- Huang, Y., M. Moreland, M. Brenner, and K. Freeman. 1999. Influence of aridity and atmospheric CO₂ concentration on the distribution of C₃ and C₄ plants - evidence from molecular and carbon isotopic studies of lake sediment cores from Mesoamerica. Presented at the fall meeting of the American Geophysical Union, San Francisco, CA, 13-17 December. AGU, 80(47), Fall Meet. Suppl., Abstract B52B-06.
- Brenner, M., D.A. Hodell, J.H. Curtis, M.F. Rosenmeier, F.S. Anselmetti, and D. Ariztegui. 1999. Limnología en El Petén: problemas y perspectivas. Presented (in Spanish) at the conference "Nuevas Perspectivas de Desarrollo Sostenible en Peten," organized by the Facultad Latinoamericana de Ciencias Sociales (FLACSO) Guatemala, and the Consejo Nacional de Areas Protegidas (CONAP), Flores, Guatemala, 2-4 December 1999. (invited).
- Whitmore, T.J., M. Brenner, and K. Kolasa. 1999. Diversified historic responses of Florida lakes to agriculture and urbanization: implications for lake restoration programs. Presented at the 19th International Symposium of the North American Lake Management Society (Water: 21st Century Gold), Reno, Nevada, 1-4 December, 1999.
- Brenner, M. 1998. Neotropical climate change since the last ice age: ecological and cultural implications. Center for Wetlands, University of Florida, Gainesville, 14 January, 1998.
- Brenner, M. 1998. Opportunities for field study abroad. Ethnobotany Society Brown Bag Lunch. University of Florida, Gainesville, 26 February, 1998.
- Brenner, M., D.A. Hodell, B.W. Leyden, J.H. Curtis, M.W. Binford, A.L. Kolata, and M.B. Abbott. 1998. Environmental determinism revisited: climatic limits on cultural development. Presented at PEP 1 (Pole-Equator-Pole) Meeting, Merida, Venezuela, 16-20 March, 1998. (invited).
- Rosenmeier, M.F., D.A. Hodell, J.B. Martin, M. Brenner, and J.H. Curtis. 1998. Late Holocene climate variability in Central America: evidence from lacustrine sediments in the Peten, Guatemala, and implications for Maya cultural evolution. Poster presented at PEP 1 (Pole-Equator-Pole) Meeting, Merida, Venezuela, 16-20 March, 1998.
- Brenner, M., D.A. Hodell, B.W. Leyden, J.H. Curtis, M.W. Binford, A.L. Kolata, M.B. Abbott, R. Sanchez, P. Sheets, D. Liverman, and L. Nuñez. 1998. Human dimensions of global change in the Americas: a synthesis of PEP 1 presentations. Poster presented at the 1st IGBP PAGES Open Science Meeting, London, England, 20-23 April, 1998. (invited).
- Bradbury, J.P., M. Brenner, W. Dean, S. Fritz, and S.E. Metcalfe. 1998. Lacustrine records from the PEP 1 (Palaeoclimate of the Americas) transect. Poster presented at the 1st IGBP PAGES Open Science Meeting, London, England, 20-23 April, 1998.

- Brenner, M. 1998. Clima y Cultura en Las Americas. Presented (in Spanish) at the 34th anniversary celebration of the Facultad de Ciencias Sociales, Universidad Nacional de Trujillo, Trujillo, Peru, 4 May, 1998.
- Brenner, M. 1998. Climate and culture in Precolumbian America. Presented at the 15th Biennial Meeting of the American Quaternary Association, Puerto Vallarta, Mexico, 5-7 September, 1998. (invited).
- Riedinger, M.A., P. Rockwell, M. Steinitz-Kannan, W.M. Last, and M. Brenner. 1998. Late Holocene diatom records from the Galapagos Islands. Poster presented at the 15th Biennial Meeting of the American Quaternary Association, Puerto Vallarta, Mexico, 5-7 September, 1998.
- Rosenmeier, M.F., J.B. Martin, D.A. Hodell, M. Brenner, and J.H. Curtis. 1998. Controls of chemical and isotopic composition of lake water, Peten, Guatemala and implications for Holocene climatic variability in Central America. Abstracts with Programs, 1998 Geological Society of America Annual Meeting, 30 (7), p. 309.
- Rosenmeier, M.F., D.A. Hodell, J.B. Martin, M. Brenner, and J.H. Curtis. 1998. Early to middle Holocene climatic variability in Central America: evidence from lacustrine sediments in the Peten, Guatemala. Presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA, 6-10 December, 1999. EOS Trans., AGU, 79 (45), Fall Meet Suppl., Abstract OS31C-02.
- Brenner, M. 1997. Utilidad de paleolimnologia en el manejo y restauracion de lagos en Florida, USA. Presented (in Spanish) at the Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, June 1997. (Invited).
- Brenner, M. 1997. Paleolimnologia y arqueologia en la region Maya. Presented (in Spanish) at the Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, June 1997. (Invited).
- Brenner, M., T.J. Whitmore, J.H. Curtis, D.A. Hodell, and C.L. Schelske. 1997. The stable isotope signature of sedimented organic matter as an indicator of historical trophic state conditions. Presented at the 7th International Symposium on Palaeolimnology, 28 Aug-2 Sept, 1997, Riedlingen, Germany.
- Brenner, M., and B.W. Leyden. Vegetation history of the Yucatan Peninsula. Presented (in Spanish) at the II Congreso Internacional de Etnobotanica, 12-17 October, 1997, Merida, Yucatan, Mexico.
- Steinitz-Kannan, M., M. Riedinger, W. Last, M. Brenner, and M. Miller. 1997. Un registro de 6000 años de manifestaciones intensas del fenomeno de El Niño en sedimentos de lagunas de las Islas Galapagos. Presented at the ORSTOM Symposium

"Consecuencias climaticas e hidrológicas del evento El Niño a escala regional y local," 26-29 November, 1997, Quito, Ecuador.

Brenner, M. 1996. Paleoenvironment of the Maya Lowlands: A story preserved in lake bed sediment. Presented at the University of Georgia Department of Anthropology Colloquium, 23 February, 1996. (Invited).

Brenner, M. 1996. El posible papel del clima en el colapso de la Civilización Maya durante el periodo clásico. Presented (in Spanish) at the Instituto Nacional de Antropología e Historia, Merida, Yucatan, Mexico, June, 1996. (Invited).

Brenner, M. 1996. Paleolimnología de la Península de Yucatan. Presented (in Spanish) at the Universidad Autónoma de Yucatan, Merida, Yucatan, Mexico, June 1996. (Invited).

Brenner, M. 1996. Holocene climate change in the Neotropics and impacts on human cultural development. Presented at the University of Florida Department of Geography Colloquium series, November 15, 1996. (Invited).

Brenner, M., T.J. Whitmore, and C.L. Schelske. 1995. Paleolimnological evaluation of historical trophic state conditions in hypereutrophic Lake Thonotosassa. Presented at the Sixth Annual Florida Lakes Management Conference, Clearwater, FL, 3-5 May, 1995.

Brenner, M., C.L. Schelske, and T.J. Whitmore. 1995. Radium-226 stratigraphy in Florida lake sediments as an indicator of human disturbance. Presented at the 25th SIL International Congress, Sao Paulo, Brazil, 23-29 July, 1995.

Riedinger, M.A., M. Steinitz-Kannan, M. Brenner, and W.M. Last. 1995. Reconstruction of climate change in the eastern equatorial Pacific, 6000 yr B.P. to present: the paleolimnology of Bainbridge Crater Lake, Galapagos Islands. Presented at the First International Limno-Geological Congress, Copenhagen, Denmark, 21-25 August, 1995.

Riedinger, M.A. and M. Brenner. 1994. Paleolimnological investigations into the recent History of Lake Yambo, Ecuador. Presented at the 13th Biennial Meeting of the American Quaternary Association, Minneapolis, MN, 19-22 June, 1994.

Riedinger, M.A., M. Brenner, M. Steinitz-Kannan, W.M. Last, and M.C. Miller. 1994. The paleolimnology of Bainbridge Crater Lake, Galapagos Islands: a Holocene record of salinity fluctuations. Presented at the 13th Biennial Meeting of the American Quaternary Association, Minneapolis, MN, 19-22 June, 1994.

Whitmore, T.J., M. Brenner, J.H. Curtis, B.W. Leyden, and B.H. Dahlin. 1994. Holocene climatic and human influences on lakes of Yucatan Peninsula. Presented at the 13th

International Diatom Symposium, Acquafredda di Maratea, Italy, 1-7 September, 1994.

Brenner, M. 1994. Lake Management in the tropics: priorities and special concerns. 1994. Presented at the 14th Annual International Symposium of the North American Lake Management Society, Orlando, FL, 31 October-5 November, 1994.

Steinitz-Kannan, M., M. Riedinger, and M. Brenner. 1993. Paleolimnology of Galapagos saline lagoons and history of El Niño events. Presented at Inter-INQUA, Canberra, Australia, April 15-18, 1993.

Whitmore, T.J., M. Brenner, and C.L. Schelske. 1993. The importance of mapping surveys for paleolimnological studies of shallow, subtropical lakes with variable sediment distribution. Presented at the Sixth International Palaeolimnology Symposium, Canberra, Australia, April 19-21, 1993.

Riedinger, M., M. Steinitz-Kannan and M. Brenner. 1993. A mid-Holocene record of precipitation events from the equatorial Pacific: the palaeolimnology of Bainbridge Crater Lake, Galapagos Islands. Presented at the Sixth International Palaeolimnology Symposium, Canberra, Australia, April 19-21, 1993.

Steinitz-Kannan, M., M. Brenner, and M.A. Riedinger. 1993. History of El Niño events in the Galapagos Islands: the diatom record from El Junco Lake. Presented at the 12th North American Diatom Symposium, University of Manitoba, Manitoba, Canada, September 23-25, 1993.

Brenner, M., C.L. Schelske, J.H. Curtis, D.A. Hodell, and M.W. Binford. 1993. A high-resolution paleoclimate record from Lago Huiñaimarca (Lago Titicaca Meander), Bolivia. Presented at the Sixth International Paleolimnology Symposium, Canberra, Australia, April 19-21, 1993.

Curtis, J.H., D.A. Hodell, M. Brenner, and M.W. Binford. 1993. Little Ice Age recorded in sediments from Lake Titicaca, Bolivia. Presented at the fall meeting of the American Geophysical Union.

Dahlin, B.H., B. Leyden, and M. Brenner. 1992. Lowland Maya environments at the Preclassic/Early Classic transition. Presented at the 57th Annual meeting of the Society for American Archaeology, Pittsburgh, PA, April 8-12, 1992.

Leyden, B. and M. Brenner. 1992. Reforestation of lowland Guatemala after European contact. Presented at the 57th Annual meeting of the Society for American Archaeology, Pittsburgh, PA, April 8-12, 1992.

Whitmore, T.J., M. Brenner, and C.L. Schelske. 1992. Paleolimnology of Florida lakes: reconstructing human impacts on water quality. Presented at the Seventh Annual

- LE/AD Florida Lake Management Conference, Winter Haven, FL, May 7-8, 1992. (Invited).
- Brenner, M., T.J. Whitmore, M.S. Flannery, and M.W. Binford. 1991. Paleolimnology of Lake Parker: evidence for recent cultural eutrophication. Presented at the Sixth Annual LE/AD Florida Lake Management Conference, Winter Haven, FL, May 16-17, 1991. (Invited).
- Whitmore, T.J., M. Brenner, and Song X. 1991. Climatic and human influences on lakes of the Yunnan Plateau, PRC: Late Pleistocene to Present. Thirteenth INQUA Congress, Beijing, China, August 2-9, 1991.
- Brenner, M., T.J. Whitmore, D.R. Engstrom, and Song X. 1991. Paleolimnological assessment of recent human impacts on lakes and watersheds of the Yunnan Plateau, southwest China. Thirteenth INQUA Congress, Beijing, China, August 2-9, 1991.
- Whitmore, T.J., M. Brenner, C.L. Schelske and A. Peplow. 1991. Application of Paleolimnological Techniques in Lake Management and Restoration. 11th Annual Symposium of the North American Lake Management Society, Denver, CO, November 11-16, 1991.
- Curtis, J.H., D.A. Hodell, G.A. Jones and M. Brenner. 1991. Caribbean climate change from 10.9 kyr BP to present: evidence from a high resolution $\delta^{18}O$ record from Lake Miragoane, Haiti. AGU Chapman Conference on Continental Indicators of Climate Change, Jackson Hole, Wyoming, June 10-14, 1991.
- Brenner, M. 1990. Deforestation and reforestation in the Maya Lowlands: a long-term perspective.. Presented at "People, Society and the Biosphere: a Symposium on the Environment in the Americas", The Johns Hopkins University, MD., April 20, 1990. (Invited).
- Brenner, M. Florida limnology (Part I). Lake Okeechobee internal nutrient loading: characterizing the sediments (Part II). 1990. Presented at the Yunnan Institute of Geological Sciences, Kunming, China, July 6, 1990. (Invited).
- Whitmore, T.J., M. Brenner, and Song X. Environmental implications of Holocene diatom history in Xingyun Hu, Yunnan Province, China. 1990. Poster presented at the 11th International Symposium on Living and Fossil Diatoms, San Francisco, CA., August 12-17, 1990.
- Brenner, M. 1990. The human factor in landscape reduction: long-term records from tropical lake bottoms. 1990. Presented at the Congress, "Las sociedades no-imperiales en los paises visitados por Cristobal Colon durante sus cuatro viajes al Nuevo Mundo", STRI, Panama, August 27-September 1, 1990. (Invited).

- Brenner, M., K. Dorsey, Song X., Wang Z., Long R., M.W. Binford, and A.M. Moore. 1989. Paleolimnology of Qilu Hu, Yunnan Province, China. Presented at the Fifth International Symposium on Paleolimnology, Cumbria, U.K., September 1-6, 1989.
- Hodell, D.A., A. Higuera-Gundy, M. Brenner, K. Dorsey, and M.W. Binford. 1989. $\delta^{18}O/\delta^{16}O$ of ostracods from Lake Miragoane, Haiti, reflect climatic changes during the last Glacial/Interglacial transition. Presented at the American Geophysical Union meeting, San Francisco, CA., December 4-8, 1989.
- Reddy, K.R., D.A. Graetz, M.M. Fisher, D. Ivanoff, and M. Brenner. 1989. Nutrient storage in Lake Apopka sediments. Presented at the American Society of Limnology and Oceanography meeting in Fairbanks, Alaska, June 18-22, 1989.
- Brenner, M., M.W. Binford, and A. Higuera-Gundy. 1988. Paleolimnology of Lake Miragoane, Haiti: the past 1000 years. Presented at the American Society of Limnology and Oceanography meeting in Boulder, CO., 12-16 June 1988.
- Whitmore, T.J., M. Brenner, K.E. Japy, B.E. Rood, and K.T. Dorsey. 1988. Meromixis in a small north Florida lake. Presented at the American Society of Limnology and Oceanography meeting in Boulder, CO., 12-16 June 1988.
- Binford, M.W., and M. Brenner. 1988. A paleolimnological record of 3500 years of human activities and land-water interactions in Lake Titicaca (Bolivia). Presented at the American Society of Limnology and Oceanography meeting in Boulder, CO., 12-16 June 1988.
- Dorsey, K., M. Brenner, M.W. Binford, and E.S. Deevey. 1988. Pleistocene-Holocene sedimentary history of Qilu Hu, Tonghai County, Yunnan. Poster presented at the 10th biennial meeting of the American Quaternary Association, Amherst, MA., 6-8 June 1988.
- Binford, M.W., M. Brenner, and B.W. Leyden. 1987. Preliminary studies of Tiwanaku limnology. Presented at the Society for American Archaeology meeting in Toronto, Canada, 6-10 May 1987.
- Higuera-Gundy, A., M. Brenner, and M.W. Binford. 1986. Paleoecology of Lake Miragoane, Haiti. Presented at the Ecological Society of America meeting in Syracuse, N.Y., 10-16 August 1986.
- Leyden, B.W., M. Brenner, and M.W. Binford. 1986. A short history of three savanna lakes in Guatemala. Presented at the Ecological Society of America meeting in Syracuse, N.Y., 10-16 August 1986.
- Binford, M.W., M. Brenner, and A. Higuera-Diaz. 1986. Limnology and sedimentology of Lake Miragoane, Haiti. Presented at the American Society of Limnology and Oceanography meeting in Kingston, R.I., 23-26 June 1986.

- Brenner, M., M.W. Binford, and B.W. Leyden. 1986. Sedimentation in lakes of the Guatemalan savannas. Presented at the American Society of Limnology and Oceanography meeting in Kingston, RI, June 1986.
- Leyden, B.W. and M. Brenner. 1985. The Holocene history of Lake Salpeten, Guatemala: 2600 years of Maya impact. *Bulletin of the Ecological Society of America* 66:217.
- Deevey, E.S., M.W. Binford, and M. Brenner. 1985. A paleolimnological view of watershed development and lake eutrophication in the subtropics and tropics. *American Society of Limnology and Oceanography Bulletin*.
- Brenner, M. and M.W. Binford. 1985. Material transfer from water to sediment in Florida lakes. Presented at the Fourth International Symposium on Paleolimnology, Ossiach, Austria, 2-7 September 1985.
- Deevey, E.S., M.W. Binford, M. Brenner, and T.J. Whitmore. 1985. Sedimentary records of accelerated nutrient loading in Florida lakes. Presented at the Fourth International Symposium on Paleolimnology, Ossiach, Austria, 2-7 September 1985.
- Brenner, M. and M.W. Binford. 1984. Relationships between sediment and water variables in Florida lakes. *American Society of Limnology and Oceanography Bulletin*.
- Binford, M.W. and M. Brenner. 1984. Relationships between sedimentary accumulation rates and trophic state in Florida lakes. *American Society of Limnology and Oceanography Bulletin*.
- Brenner, M. and B. Leyden. 1984. Pleistocene and Holocene sediments from Lake Salpeten, Peten, Guatemala: Chemistry and pollen. Poster presented at the 8th biennial meeting of the American Quaternary Association, Boulder, CO., August 13-15, 1984.
- Brenner, M. 1983. Paleolimnology of the Maya lowlands: Three millennia of human disturbance. *Bulletin of the Ecological Society of America* 64:131.
- Brenner, M. 1982. Maya induced phosphorus loading in Peten lakes: Testing a model. Presented at the Minnesota Conference on Maya Environment and Agriculture, Minneapolis, MN, April 14, 1982. (Invited).
- Brenner, M. 1981. Paleolimnology of the Peten Lake District, Guatemala II. Mayan population density and sediment and nutrient loading of Lake Quexil. Presented at the Third International Symposium on Paleolimnology, Joensuu, Finland, 1-8 September, 1981.

Deevey, E.S., M. Brenner, and M.W. Binford. 1981. Paleolimnology of the Peten Lake District Guatemala III. Late Pleistocene and Gamblian environments of the Maya area. Presented at the Third International Symposium on Paleolimnology, Joensuu, Finland, 1-8 September 1981.

Field Research:

Mariculture:

St. Croix, U.S. Virgin Islands, 1974.

Limnology, Paleolimnology, Paleoclimate:

Cambodia: 2003

Dominican Republic: 2001, 2003.

Guatemala, Mexico and Belize: 1976, 1977, 1978, 1979, 1980, 1985, 1989, 1992, 1993, 1994, 1997, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2018, 2019, 2022, 2023, 2024.

Florida: 1982-2024.

Haiti: 1985, 2003.

Bolivia: 1986, 1987, 1988, 1989, 1990, 1992, 1993, 1995, 1996, 1997

Peru: 1998

China: 1987, 1990, 1994.

Ecuador and Galapagos Islands: 1991-92.

Panama: 1994, 1995

Venezuela: 1994

Madagascar: 2017

Colombia: 2015, 2018

Teaching:

Coordinator, Tropical Field Ecology Course, UF International Programs, Merida, Mexico (1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2022, 2024)

Field Component (Harvard University Site Ecology Course, Ecology and Land Use Planning Course), Archbold Biological Station, FL (1991-1998, 2000-2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2013, 2014)

Paleolimnology (1998, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2016, 2017, 2019, 2020, 2021, 2022, 2023)

Limnology (2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2024)

Perspectives in Florida Lake Management (2007, 2008, 2009, 2010, 2011, 2012, 2013)

Coordinator, Department of Geological Sciences Seminar Series (Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022)

Geology of Florida (2022)

Editing:

Co-Editor-in-Chief, *Journal of Paleolimnology* (2007-2022)

Grants and Consulting:

Graham, W.D., K.J. Schlatter, A.E. Braswell, M. Brenner, M.J. Cohen, M.J. Deitch, T.G. Gebremicael, A.B. Shortelle, and M.C. Sukop. 2022. Florida Wildlife Corridor Water Benefits: An Independent Assessment Led by the University of Florida Water Institute. Archbold Biological Station, Venus, FL 33960. \$100,000.

Obrist-Farner, J., A. Eckert, P. Douglas, M. Brenner, J. Curtis, C. Burberry, L. Perez, C. Jaramillo, I. Domaizon, A. Correa-Metrio, N. Wattrus, P. Mann, S. Gao, F. Oboh-Ikuenobe, T. Bhattacharya, S. Zimmerman, E. Lodolo. Workshop Proposal for LIBRE – Lake Izabal Basin Research Endeavor. International Continental Scientific Drilling Program (ICDP), \$52,000. Supplemented to ~\$100k with funding from the US National Science Foundation. *Note, originally scheduled for August 2020, the workshop occurred in August 2022.

Kowalewski, M. (PI). Research Coordination Network: Integrating and Translating Conservation Paleobiology. National Science Foundation (EAR). 9/19-9/24. \$492,099. I was a collaborator on the proposal and serve on the Field Course Panel.

Kutterolf, S. (PI) et al. Neogene environmental and geological evolution of the Central American bridge between two continents and two oceans (NICA-BRIDGE). Workshop Proposal submitted to the International Continental Scientific Drilling Program. \$61,000. Held March 2020.

Graham, W., K. Havens, T. Frazer, M. Brenner, and J. Obeysekera (PIs). Independent scientific review to inform development of the new Lake Okeechobee regulation schedule. South Florida Water Management District. 2019-2020. \$306,303.

- Angelini, C., T.S. Bianchi, A. Canestrelli, W.F. Kenney and M. Brenner. Rising seas, herbivore outbreaks and the uncertain future of blue carbon. UF Research Opportunity Seed Fund. \$88,844.
- Whitmore, T.J., and M. Brenner. Paleolimnological models for inferring background limnetic chlorophyll *a* values in Florida lakes. Florida Department of Environmental Protection. \$395,844. 05/24/2011-01/23/2013.
- Brenner, M. and R. Knight. Gum Springs flow diversion study: whole ecosystem metabolism assessment. SW Florida Water Management District. \$23,780. 09/23/10-07/31/11.
- Whitmore, T.J., M. Brenner, and M. Riedinger. Gum Springs flow diversion study: periphyton and macrophyte assessment. SW Florida Water Management District. \$83,000. 8/26/2009-03/31/2011.
- Brenner, M., J.H. Curtis, and W.F. Kenney. Sediment distribution in the DeBary Bayou, Middle St. Johns River Basin. Florida Department of Transportation. \$13,000. December 2009-2010.
- Brenner, M. and J.H. Curtis. Validation of fat threeridge mussel ages through stable oxygen isotope analysis. U.S. Fish and Wildlife Service. \$10,000. February 2010-.
- Brenner, M. and D.G. Buck. Doctoral Dissertation Research: Linking land-use and land-cover change and aquatic ecosystem function in the Temash River Watershed, Belize, Central America. National Science Foundation- Geography and Regional Sciences. \$12,000. 6/2008-12/2009.
- Pollman, C.D. and M. Brenner. Evaluate stressor index. Florida DEP. \$13,568. 7/24/2009-12/30/2009.
- Pollman, C.D. and M. Brenner. Identify conceptual models. Florida DEP. \$21,615. 3/4/2010-8/01/2010.
- Brenner, M., Whitmore, T.J., J.H. Curtis, and A. Zimmerman. Sediment Accumulation Rate and Past Water Quality in Lochloosa Lake. St. Johns River Water Management District, Palatka, FL. \$200,000. 10/2006-9/2008.
- Whitmore, T.J., and M. Brenner. Analysis of diatoms in sediment samples from the Everglades. South Florida Water Management District. \$15,500. 04/29/2008 - 09/30/2008.
- Hodell, D.A., and M. Brenner. Speleothem paleoclimatology of the Maya Lowlands. National Geographic Society. 2006-2007. \$26,414.

- Hodell, D.A., M. Brenner, J.H., Curtis, and C.D. Gallup. 2004. Lake Peten-Itza Drilling Project, Guatemala: A Terrestrial Archive of Northern Neotropical Climate and Environmental Change. National Science Foundation – Earth System History. \$298,904. 2005-2007.
- Hodell, D.A., Flavio Anselmetti, Daniel Ariztegui, Mark Brenner, Jason H. Curtis, Gerald Haug, and Judith McKenzie. Lake Peten-Itza (Guatemala) Drilling. International Continental Scientific Drilling Program (ICDP). \$500,000.
- Brenner, M. and J.H. Curtis. Sedimentation in Davis Lake (Tsala Apopka Chain of Lakes). Citrus County Aquatic Services, Lecanto FL. \$40,500. 2003-2004.
- Brenner, M., and J.H. Curtis. Bulk sedimentation and nutrient accumulation rates in Lakes Poinsett and Winder of the Upper St. Johns River Basin. St. Johns River Water Management District, Palatka, FL. \$49,000. 2001-2003.
- Hodell, D.A., M. Brenner, and others. ICDP Workshop (GLAD800 Drilling in Lake Peten-Itza, Guatemala. International Continental Scientific Drilling Program (ICDP), Potsdam, Germany. 2003. \$40,000.
- Hodell, D.A., M. Brenner, and J.H. Curtis. Collaborative research: climate change in the lowland neotropics during the last glacial-to-interglacial cycle: a site survey proposal for GLAD800 drilling. National Science Foundation. \$140,551. 2001-2003.
- Brenner, M. High-Resolution Holocene Paleoclimate Records from Hispaniola. UF CLAS. \$14,980. 2001.
- Brenner, M., J.H. Curtis, D.A. Hodell, and J. Jaeger. Ecology and paleoecology of groundwater-augmented Florida lakes. Southwest Florida Water Management District, Brooksville, FL. \$161,875. 2001-2003.
- Brenner, M., D.A. Hodell, and J.H. Curtis. Investigation of long-term stability and phosphorus accretion by an aquatic system with a long history of submerged aquatic vegetation dominance. South Florida Water Management District, West Palm Beach, FL. \$65,875. 2001-2002.
- Brenner, M., J.H. Curtis, and D.A. Hodell. Lake Hancock: A multi-proxy reconstruction of past trophic state conditions. Southwest Florida Water Management District, Brooksville, FL. \$56,000. 2001-2002.
- Brenner, M., J.M. Smoak, and M.S. Allen. Radium-226 in sediments and biota of groundwater-augmented lakes. Southwest Florida Water Management District, Brooksville, FL. \$122,500. 2000-2001.

- Hodell, D.A., M.W. Binford, M. Brenner, C.L. Schelske, K.R. Reddy, and T.L. Crisman. Establishment of the Florida Institute of PaleoEnvironmental Research (FLIPER). University of Florida Opportunity Fund. \$134,600. 1999-2000.
- Hodell, D.A., M. Brenner, and J. Martin. Climate variability and ecologic change in Mesoamerica during the late Holocene: implications for Maya cultural evolution. (supplement) National Science Foundation ESH/ATM. \$11,544. 1999.
- Whitmore, T.J. and M. Brenner. Paleolimnological reconstruction of water quality in Lake Persimmon, Highlands County. Highlands County Board of County Commissioners, Sebring, FL. \$25,000. 1998-1999.
- Brenner, M. Radiocarbon dating a sediment core from Lake Panasoffkee (Sumter County, Florida). Florida Game and Freshwater Fish Commission, Kissimmee, FL. \$3,502. 1998.
- Brenner, M. and T.J. Whitmore. Sediment Mapping of Lakes Dosson, Halfmoon, and Round, Hillsborough County. U.S. Geological Survey, Reston, VA. \$10,500. 1998.
- Brenner, M. and T.J. Whitmore. Historic ecology of lakes in the Upper St. Johns River Basin. St. Johns River Water Management District, Palatka, FL. 1998. \$20,000. 1998.
- Hodell, D.A., M. Brenner, and J. Martin. Climate variability and ecologic change in Mesoamerica during the late Holocene: implications for Maya cultural evolution. National Science Foundation ESH/ATM. \$304,000. 1997-2000.
- Brenner, M. and T.J. Whitmore. Paleolimnological reconstruction of water quality for Lakes Dosson, Halfmoon, and Round, Hillsborough County, Florida. Southwest Florida Water Management District, Brooksville, FL. \$67,450. 1997-1999.
- Hodell, D.A. and others. The role of climate change in the collapse of Classic Maya civilization. National Geographic Society. \$20,430. 1997-1998.
- Brenner, M. and T.J. Whitmore. Historical sediment and nutrient accumulation rates and past water quality in Newnans Lake. St. Johns River Water Management District, Palatka, FL. \$68,590. 1997-1998.
- Brenner, M. and T.J. Whitmore. Historical trophic conditions in the Hillsborough Reservoir. City of Tampa and Southwest Florida Water Management District, Brooksville, FL. \$22,300. 1997-1998.
- Whitmore, T.J. and M. Brenner. Historic water quality assessment of Little Lake Jackson. Board of County Commissioners, Highlands County, FL. \$25,000. 1996-1997.

- Brenner, M. and T.J. Whitmore. Historical Sediment and Nutrient Accumulation Rates and Past Water Quality in Orange Lake - Phase I. St. Johns River Water Management District, Palatka, FL. \$46,230. 1996.
- Brenner, M. and C.L. Schelske. Bulk sedimentation and nutrient accumulation rates in lakes of the Upper St. Johns River Basin. St. Johns River Water Management District, Palatka, FL. \$60,000. 1995-1997.
- Whitmore, T.J. and M. Brenner. Historic Water Quality Assessment of Selected Lakes on the Winter Haven Chain of Lakes. 1995. Southwest Florida Water Management District, Brooksville, FL. \$25,000.
- Whitmore, T.J. and M. Brenner. Assessment of Historical Changes in Water Quality and Sedimentation Rates in Lake Thonotosassa, Hillsborough County, Florida. Southwest Florida Water Management District, Brooksville, FL. \$20,000. 1994.
- Brenner, M. and C.L. Schelske. Historical sedimentation and nutrient storage rates in the Blue Cypress Marsh Conservation Area (Part 2). St. Johns River Water Management District, Palatka, FL. \$75,000. 1993-1995.
- Whitmore, T.J., M. Brenner, and C.L. Schelske. Sedimentary analyses and historical assessment of Lake Marianna, Polk Co., Florida. Southwest Florida Water Management District, Brooksville, FL. \$25,000. 1993.
- Brenner, M. and D.A. Hodell. High-Resolution Reconstruction of Caribbean Climate During the Middle to Late Holocene (5000 years BP to Present). National Oceanic and Atmospheric Administration Paleoclimatology Program. \$160,000. 1993-1996.
- Brenner, M., D.A. Hodell, and T.J. Whitmore. Paleoclimate of Southwest China: Development of the Asian Monsoon. National Science Foundation - Climate Dynamics. \$190,668. 1993-1996.
- Brenner, M. Human-Environment Interactions in the Bolivian Altiplano: Climate, Limnology and Tiwanaku Agro-Ecosystems. Subcontract to Harvard University (NSF). \$75,000. 1993-1995.
- Brenner, M. and C.L. Schelske. Historical sedimentation and nutrient storage rates in the Blue Cypress Marsh Conservation Area (Part 1). St. Johns River Water Management District, Palatka, FL. \$41,000. 1992-1994.
- Schelske, C.L., M. Brenner and T.J. Whitmore. Lake Jovita (Clear Lake) Sediments and Historical Ecology. Southwest Florida Water Management District, Brooksville, FL. \$15,000. 1991-1993.

- Brenner, M. and C.L. Schelske. Late Holocene History of Precipitation Events in the Equatorial Pacific: a Record from Galapagos Lake Cores. Subcontract to Northern Kentucky University (NSF). \$23,000. 1991-1993.
- Brenner, M. and T.J. Whitmore. Project to Reconstruct Holocene Environments on a Karstic Plain, Yucatan, Mexico. Subcontract to Howard University (NASA) \$40,966. 1991-1993.
- Schelske, C.L. and M. Brenner. Lake Parker Sediment Mapping and Analysis. Southwest Florida Water Management District, Brooksville, FL. \$20,000. 1991-1992.
- Schelske, C.L., M. Brenner and T.J. Whitmore. Lake Hollingsworth Sediments and Historical Ecology. Southwest Florida Water Management District, Brooksville, FL. \$20,000. 1991-1992.
- Project Coordinator. Lake Seminole Sediment Mapping and Analysis. Southwest Florida Water Management District, Brooksville, FL. \$47,813. 1990-1991.
- Consultant for "Project to Reconstruct Holocene Environments on a Karstic Plain, Yucatan, Mexico." NASA NAG 2-525. 1989-1990.
- Consultant for the Lake Maggiore Restoration Project. Contract to CH2M Hill. 1989-1990.
- Hodell, D.A. and others. NSF Proposal EAR 89-16868. "Improvement of Stable Isotope Research Facilities at the University of Florida". 1989. \$40,874.
- Supplemental funds for completion of NSF project "Holocene Environmental History of the Kunming Lake District as Recorded in Lake Sediments", (NSF INT-8802793). 1988. \$20,000 NSF, \$20,000 match.
- Consultant for "Proyecto Wila Jawira", Bolivia. NSF BNS-8607541. 1987.
- Consultant for "Proyecto Wila Jawira", Bolivia. NSF BNS-8607541. 1986.

Graduate Student Mentoring

Role	Student	Research Topic	Home Dept.	Complete Date
Chair, PhD Committees				
	Marcus Briggs-Cloud	So That Unborn Generations May Carry on Our Language and Culture: A Maskoke Holistic Decolonization and Reindigenization	Interdisciplinary Ecology	2024
	Elliott Arnold	Reconstructing Subtropical Lacustrine Environments from the Late Pleistocene to Present	Geology	2017
	Susanna Blair	Trace Metals in Florida Lake Sediments	Geology	2014
	David G. Buck	Linking Land Use - Land Cover Change and Ecosystem Function In Tropical Lowland Watersheds of Belize, Central America	Interdisciplinary Ecology	2012
	Jaime Escobar	Late Glacial and Holocene Climate Change in the Maya Lowlands	Interdisciplinary Ecology	2010
Co-Chair, PhD Committees				
	*Nancy Yolimar Suarez Mozo	Reconstruccion del Registro Sedimentario y Cambios en la Comunidad de Moluscos en una Laguna Hipersalina	Ciencias del Mar y Limnologia	2023

de la Peninsula de Yucatan

*Universidad Nacional Autonoma de Mexico (UNAM)

Rachel Nifong	Linking Autotrophic Tissue Stoichiometry in Flowing Waters to Metabolism, Structure, and Nutrient Limitation	Interdisciplinary Ecology	2015
Jennifer Bernatis	Morphology, Ecophysiology, and Impacts of Nonindigenous <i>Pomacea</i> in Florida	Interdisciplinary Ecology	2014

Chair, MS Committees

Jennifer Mays	Bulk and Compound-Specific Isotope Analysis of Long-Chain <i>n</i> -Alkanes from a 85,000-Year Sediment Core from Lake Peten Itza, Guatemala	Geology	2012
Elliott Arnold	Using Oxygen Isotopes to Determine Growth Patterns in the Invasive Gastropod <i>Pomacea insularum</i>	Geology	2011
Dustin Grzesik	Sediment Core Images as Paleo-Environmental Tools	Geology	2010
Brandy S. DeArmond	Ra-226 in Groundwater-Augmented lakes	Geology	2007
Jaime Escobar	Thecamoebians as Bioindicators in Florida lakes	Geology	2005

David G. Buck	Limnology and Paleolimnology of Hypersaline Lake Enriquillo, Dominican Republic	Interdisciplinary Ecology	2004
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Co-Chair, MS
Committees

Marilyn Ogbugwo	Channel Migration and Geology on the Chickasawhay River Southeast Mississippi	Geography	2005
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Member (M) or External (E), PhD
Committees

Jing Lyu	(M)	Pyrogenic Carbon In Soil and Comparison Of Quantitative Methods	Geology	2024
Ali Alruzuq	(E)	Hydromorpho- Dynamic and Sedimentation Variations In the Lower Apalachicola River System	Geography	2024
Rocio Maria Lopez	(E)	A Geoarchaeological Approach to the Materiality and Historical Ecology of Earth Mounds: The Colina Da Monte Site, Uruguay	Anthropology	2024
Megan LeBlanc	(E)	Digging for Disasters: El Niño, Drought, and Floods on the Far Southern Coast of Peru	Anthropology	2023

Indah Huegele	(E)	The Rise and Fall of Platanaceae: Putting Together Pieces of a 100-million-year-old story	Botany	2023
Mackenzie Smith	(E)	Climate and Diversity Of Early and Middle Eocene Floras from Middle Latitudes of the Northern Hemisphere	Botany	2023
Maram Alrehaili	(E)	Decadal Morphodynamics Associated with Sand And Gravel Mining Variations in the Amite River and Floodplain, Louisiana	Geography	2023
Kevin C. McDaniel	(E)	Gastronauts of The Lower Amazon: Shell and Landscape Across two Millennia In Caxiuanã	Anthropology	2022
Shamindri Tennakoon	(E)	Integrating Qualitative and Quantitative Approaches In Morphological Analyses of Recent and Fossil Benthic Invertebrates	Zoology	2022
Gregory Jongsma	(E)	Patterns and Processes of Frog Diversification in Tropical Africa	Zoology	2022
Terry Barbour	(E)	The View Source-Side: Shell Bead Production Along Florida's Gulf Coast	Anthropology	2022

Kylie Williamson	(E)	Life and Death on the Gulf Coast: an Osteological and Isotopic Examination Of Three Prehistoric Sites On the Gulf Coast of Florida	Anthropology	2022
Mohammed Mustapha	(E)	Ironworking and Political Centralization In Mamprugu: Archaeological Insights For Historiography in Northern Ghana	Anthropology	2022
*Matthew Pawel Duda	(E)	Long-term Trends In a Vulnerable Seabird Species: Explorations of Population Dynamics Using Paleolimnology	Biology	2022
* <u>Queen's University, Canada</u>				
Lisa Duffy	(E)	Using Residue Analysis to Explore Ancient Maya Recipes And Food-Processing Technology	Anthropology	2021
Kristopher Kusnerik (M)	(M)	Freshwater Conservation Paleobiology: Understanding the Historical Ecology of Spring-Fed Fluvial Systems In Florida Using Fossil And Modern Mollusks	Geology	2021
*Gloria Liliana Betancurth Montes	(E)	Recent Sedimentary Dynamics of the Atrato River Delta And Its Influence on The Sedimentation of The West Sector of the Gulf of Urabá, Colombia	Environmental Engineering	2021

*Universidad de Antioquia, Colombia

*Elisandra Hernandez	Anthropogenic Activities in Lake Izabal, Gutemala: Geochemical Evidence Of Recent Contamination	Geology & Geophysics	2020
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*Missouri University of Science and Technology, Rolla, MO

*Chelsi McNeill-Jewer	Development Calibration and Application of μ XRF-CS Cl as a proxy for Holocene drought conditions in the Yucatan Aquifer, Mexico	Geography and Earth Sciences	2020
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*McMaster University, Hamilton, Ontario, Canada

Lily Kirk	(M) Metabolism in Subtropical Lowland Rivers	Interdisciplinary Ecology	2020
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Peter Chutcharavan (M)	Ice Sheet Histories and Sea-Level Change During the Last Interglacial and Termination I Inferred from Fossil Corals: An Interdisciplinary Approach	Geology	2020
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*Ana Carolina Torregroza	Spatio-temporal Distribution of Temperature, Salinity, and Suspended Sediment on the Deltaic Front of the Magdalena River: Influence on Nutrient Concentration and Primary Productivity	Marine Sciences	2020
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*Universidad del Norte, Barranquilla, Colombia

Laura Van Voorhis (E)	Prehistoric Denizens of Fort Center, Florida: Osteoarchaeology and Isotope Geochemistry	Anthropology	2020
*Yuliana Serna Zapata	Climate, Landscape and Cultural Dynamics in the Colombian Caribbean: A Multi-Disciplinary Perspective on Changes from the Middle Holocene to Present	Biology	2020
<u>*Universidad del Norte, Barranquilla, Colombia</u>			
Rebecca Koll (E)	Taxonomic and Biogeographic Reevaluation of North American Gigantopterids and Examination of Floristic Composition and Patterns of Insect Herbivory in Early Permian Landscapes	Botany	2019
Amanda Croteau (E)	Evaluation of Coastal Marsh Restoration Efforts in Robinson Preserve, Tampa Bay, Florida	Fisheries and Aquatic Sciences	2019
Jorge Garcia (E)	Ecological Change and Dietary and Social Inequality in La Tolita, A Complex Society on the Northern Pacific Coast of South America	Anthropology	2019
John M. Pfeiffer (E)	Tropical Freshwater Mussel Evolution and a Phylogenetic Reconstruction of the Unionidae	Zoology	2019

Lesley-Gail Atkinson	(E)	Burens, Cooking Pots and Water Jars: a Comparative Analysis of Jamaican Prehistory	Anthropology	2019
Jack Hutchings	(M)	Molecular Biomarker Approaches to Determining Organic Matter Sources and Degradation States in High Latitude Permafrost-Affected Soils	Geology	2018
Mohammad Abdulrahman (Almulla)	(E)	Channel Bed and Geometry Changes in the Upper and Middle Atchafalaya River 1967 to 2015	Geography	2018
Paul Julian	(E)	Biogeochemical Controls on Water-Column Productivity and Nutrient Cycling in Semitropical Wetlands: A Case Study from the Everglades Stormwater Treatment Areas	Soil and Water Sciences	2018
Juan Felipe Paniagua	(M)	Hydrodynamic Processes Associated with the Evolution of Cape-Related Shoals	Geology	2018
Nathan A. Johnson	(E)	Genetic Investigations Reveal New Insights into the Diversity, Distribution, and Life History of Freshwater Mussels (Bivalvia: Unionidae) Inhabiting the North American Coastal Plain	Fisheries and Aquatic Sciences	2017

Miriam Dominguez (E)		Wares of Knowledge and History: Social Inter-Regional Interaction in the Jubones River Basin, Ecuador (ca. 1000 BCE)	Anthropology	2017
Jing Guan	(M)	Quantifying the Effects of Epiphytic Algae on the Growth of Submerged Macrophytes	Interdisciplinary Ecology	2017
Mark Donop	(E)	Bundled Ancestor: The Palmetto Mound (8LV2) on the Florida Gulf Coast	Anthropology	2017
Xiaowen Zhang	(M)	Transport of Arctic Soil Organic Carbon to River Systems: Effects of Global Warming	Geology	2017
Sahale Casebolt	(M)	Mollusks as Ecological Indicators: Exploring Environmental and Ecological Drivers of Biological and Morphological Diversity Using Mollusks Through Space and Time	Geology	2017
Michelle Eusebio	(E)	Pottery, Cuisine, and Community Identity in Neolithic and Metal Age Southeast Asia: Biomolecular and Isotopic Investigation of Organic Residues	Anthropology	2016
Michael R. Shields	(M)	Carbon Burial in a Modern Prograding Delta: Wax Lake Delta, Louisiana	Geology	2016

Jeffrey Vadala	(E)	Analysis of Ancient Maya Caching Events at Cerro Maya (Cerros), Belize: Assemblages of Actor-Networks, Temporality and Social Fields in the Late Preclassic Period	Anthropology	2016
Xingxian Cui	(M)	Organic Carbon Dynamics in Modern Fjords	Geology	2016
Ashley Sharpe	(E)	A Zooarchaeological Perspective on the Formation of Maya States	Anthropology	2016
Ellen Lofaro	(E)	Ad Majorem Dei Gloriam: A Biogeochemical and Bioarchaeological Investigation of Indigenous Lifeways In a Jesuit Church from Early Colonial Huamanga (Ayacucho), Peru	Anthropology	2016
John Ezell	(M)	Environmental Controls on Carbonate Mineral Dissolution: Rates and Magnitudes	Geology	2016
Akeapot Srifa	(M)	Plankton Community Structure, Biomass and Succession As it Relates to Environmental Variability in Lake George	Fisheries and Aquatic Sciences	2015

Mariela Pajuelo	(E)	The Foraging Ecology of Loggerhead Turtles in the North Atlantic: Evidence from Stable Isotope Values	Zoology	2015
Mitra Khadka	(M)	Groundwater Surface Water Exchange and Solute Fluxes in Karst River Systems	Geology	2015
Amy Brown	(M)	Spring Reversals in Two Cave Systems in Northern Florida: Effects on Aquifer Oxidation State, Trace Metal Mobility, and Carbonate Mineral Solubility	Geology	2015
Jason O'Donoghue	(M)	The Archaeology of Northeast Florida Springs	Anthropology	2015
Gypsy Price	(E)	Isotopic Contributions to Unpacking Political Economies: Human-Livestock Relations at Bronze Age Mycenae	Anthropology	2015
Carly Manz	(M)	Systematics and Evolutionary Morphology of Paleogene Nyctitheriidae (Mammalia)	Geology	2015
Elisa Livengood	(M)	A Compilation of Studies on the Ornamental Fish Trade in Regulatory Management, Health, and Applications for Education	Interdisciplinary Ecology	2015

William Kenney	(M)	Using Sediment Data to Better Understand the Ontogeny and Eutrophication of Shallow Florida Lakes	Fisheries and Aquatic Sciences	2015
Christian Barrientos	(M)	Life History Variation and Artisanal Fishery Assessment of the Giant Cichlid (<i>Petenia splendida</i> Gunther 1862) in Guatemalan Lakes	Fisheries and Aquatic Sciences	2015
Paula Mejia Vasquez	(E)	Palynology and Climate Reconstructions for Tropical South America During the Early Cretaceous	Botany	2015
Oliver Burgess	(E)	Response of Aquatic Communities to Pulp and Paper Discharge Relocation into the St. Johns River, Florida	Fisheries and Aquatic Sciences	2015
Patrick O'Day	(E)	Pre-Contact Marine Resources in the Mariana Archipelago Marianas Islands	Anthropology	2015
Isaac Shearn	(E)	Pre-Columbian Regional Community Integration in Dominica, West Indies	Anthropology	2014
Jessica Oswald	(E)	The Historical Biogeography of Dry Forest Birds in Northwestern Peru	Zoology	2014
Fabiany Herrera	(E)	Revealing the Floristic and Biogeographic Composition of Paleocene to Miocene Neotropical Forests	Botany	2014

Paula Viveros Bedoya	(E)	Phytoplankton Biomass and Composition in Apalachicola Bay, a Subtropical River-Dominated Estuary in Florida	Fisheries and Aquatic Sciences	2014
Robert Hensley	(M)	Hydraulic Controls on Spatial and Temporal Variation in Nitrogen Spiraling in Large Rivers	Interdisciplinary Ecology	2014
Mary Boyd	(M)	The Ecology and Ecosystem Services of Gulf Coast Type <i>Phragmites Australis</i> (Common Reed) in Non-Tidal Freshwater Ecosystems	Environmental Engineering	2014
Rupesh Bhomia	(E)	Long-Term Accretion of Phosphorus in Wetlands: The Everglades Stormwater Treatment Areas as a Case Example	Soil and Water Sciences	2013
Dina Liebowitz	(M)	Environmentally Mediated Consumer Control of Algae Proliferation in Florida Springs	Interdisciplinary Ecology	2013
Benjamin Valentine	(E)	Immigrant Identity in the Indus Civilization: a Multi-Site Isotopic Mortuary Analysis	Anthropology	2013
Katherine Deliz	(E)	Fate and Environmental Implications of Mercury in Contaminated Soils Treated with Aluminum Based Drinking Water Treatment Residuals (Al-Wtr)	Environmental Engineering	2013

Alexander Hastings (M)		Early Paleogene Crocodyliform Evolution in the Neotropics: Evidence from Northeastern Colombia	Geology	2012
Saqui, Pio	(E)	The Transmission of Traditional Ecological Knowledge Drivers within Mopan Maya Milpa Communities of Belize	Anthropology	2012
Hannah Vander Zanden	(E)	Interpreting Sea Turtle Trophic Ecology Through Stable Isotope Analysis	Zoology	2012
Joost Moorsink	(E)	The Power of Salt: a Holistic Approach to Salt in the Prehistoric Circum-Caribbean Region	Anthropology	2012
Richard Mackenzie (M)		Establishing Visual- Based and Datum- Based Shorelines and Shoreline Uncertainties on a Sandy Coast: Cape Canaveral, Florida	Geology	2012
*Chrysoula Mitraki		Geomorphological and Biological Controls over Long-Term Sustainability of Lakes Created on Phosphate Mined Lands of Central Florida	Biology	2012
<u>*University of South Florida, Tampa, FL</u>				
Chikaomi Takahashi	(M)	Social Complexity in Formative Mesoamerica: A House-Centered Approach	Anthropology	2011

James Rasmussen (E)		Oxbow Lakes as Indicators of Geomorphic Change in Southeastern Mississippi	Geography	2010
*Liseth Perez		Non-Marine Ostracodes from the Yucatan Peninsula As Late Quaternary Paleoenvironmental Indicators	Natural Sciences	2010
<u>*Technische Universität, Braunschweig, Germany</u>				
Danny Coenen	(M)	Projecting Regional Climate Change in Florida Via GIS-Based Downscaling of a General Circulation Model	Interdisciplinary Ecology	2010
Pete T. Sinelli	(E)	All Islands Great and Small: The Role of Small Cay Environments in Indigenous Settlement Strategies in the Turks and Caicos Islands	Anthropology	2010
Alexander Cheesman	(E)	Biogenic Phosphorus in Palustrine Wetlands: Sources and Stabilization	Soil and Water Science	2010
*Megan K. Otu		The Origin, Transformation and Deposition of Sediments in Lake Bosomtwe/Bosumtwi [Ghana, West Africa]	Biology	2010
<u>*Waterloo University, Waterloo, Ontario, Canada</u>				
Jehangir Bhada	(M)	Long Term Accretion of Phosphorus in Wetlands: The Everglades Stormwater Treatment Areas as a Case Example	Soil and Water Science	2009

Andrea Albertin	(E)	Nitrogen Dynamics in Florida Springs and Relationships to Algal Blooms	Soil and Water Science	2009
Sergio Restrepo	(M)	Long-term Morphotectonic Evolution and Denudation Chronology of the Antioqueno Plateau, Central Cordillera, Colombia	Geological Sciences	2009
Adolpho Batun-Alpuche	(E)	Agrarian Production and Intensification at a Postclassic Maya Community, Buena Vista, Cozumel, Mexico	Anthropology	2009
Mete Yilmaz	(M)	Molecular Investigations of Cylindrospermopsin Production in Florida Lakes	Fisheries and Aquatic Sciences	2007
Tom Saunders	(M)	Multi-Scale Analysis of Benthic Biogeochemical Properties and Processing in a Spring-Fed River and Estuary	Interdisciplinary Ecology	2007
Isabela C. Torres	(E)	Linkage Between Biogeochemical Properties and Microbial Activities in Lake Sediments: Biotic Control of Organic Phosphorus Dynamics	Soil and Water Science	2007
Millard M. Fisher	(E)	Biogeochemical Transformations of Phosphorus in Wetland Soils	Soil and Water Science	2007

Lynette Malecki (Brown)	(E)	The Effect of Alum on Phosphorus Sequestration, Macrophytes, Mineralogy, and Microbial Community in a Municipal Wastewater Treatment Wetland	Soil and Water Science	2007
Noel M. Cawley	(E)	Aggregation as an Indicator of Disturbance and Recovery in Sandy Soils	Soil and Water Science	2005
*Luis Norberto Parra Sanchez		Análisis Facial de Resolución de Sedimentos del Holoceno Tardío en el Páramo de Frontino, Antioquia	Biology	2005
<u>*Universidad Nacional de Colombia, Bogota, Colombia</u>				
Christopher J. Brown	(M)	Planning Decision Framework for Brackish Water Aquifer, Storage and Recovery (ASR) Projects	Civil Engineering	2005
Emily Hall	(E)	Transformation and Fate of Dissolved Organic Matter Originating in the Suwannee River Watershed: A Stable Isotope Approach	Environmental Engineering	2004
Byron C. Shumate	(M)	Cycling of Organic Matter in Three Soft-Water Subtropical Lakes	Environmental Engineering	2004
Michael Rosenmeier	(M)	The Holocene Paleolimnology of Lake Salpeten, Guatemala	Geology	2003

Joel Carlin	(M)	Genetic Variation Among Populations and Species of Groupers and Coralgroupers (Osteichthyes: Serranidae: Epinephelinae)	Fisheries and Aquatic Sciences	2003
Tanya Peres	(E)	Coastal Subsistence and Settlement in the Early Ceramic: a Zooarchaeological Study from Central Pacific Panama	Anthropology	2001
Steve A. Johnson	(E)	Life History, Ecology, and Conservation Genetics of the Striped Newt (<i>Notophthalmus perstriatus</i>)	Wildlife Ecology	2001
Jason Curtis	(M)	Climatic Variation in the Circum-Caribbean During the Holocene	Geology	1997
Antonia Higuera-Gundy	(M)	Antillean Vegetational History and Paleoclimate Reconstructed from the Paleolimnological Record of Lake Miragoane, Haiti	Botany	1991

Member (M) or External (E), MA/MS/ME Committees

Jacob Gaddy	(M)	Spatial and Temporal Cycling of Dissolved Organic Matter in South Florida Treatment Wetlands	Geology	2023
Alejandro Rey de Castro	(M)	San Jacinto and the Origins of Pottery-Making in the Americas: A Technological Perspective On Invention and Innovation	Anthropology	2023

*Gloria Alejandra (E) Historia Ambiental Ciencias del 2021
 Rodriguez Abaunza De la Laguna Yalahau Mar y
 (Yucatan, Mexico) Limnologia
 Durante los Ultimos
 8,400 Años

*Universidad Nacional Autónoma de México (UNAM)

Marcos (M) The Role of Home Latin American 2020
 Ramos-Valdes Gardens in Creating Studies
 Community Ties in
 La Habana, Cuba

Harshit Saini (M) Controls on Wetland Geology 2020
 Phosphorus Distribution
 in Big Cypress Wetlands,
 South Florida

Caitlin Lebel (M) Larger Benthic Geology 2020
 Foraminifera Response
 to the Eocene-Oligocene
 Transition in Florida

Caroline Quanbeck (M) Late Pleistocene Geology 2020
 Sea-Level Change
 and Reef Response
 Inferred from Fossil Reefs
 at Red Bluff, Western
 Australia

Cora Summerfield (M) Role of Lakebed Geology 2019
 Sediments in Mediating
 Lake-Groundwater
 Exchange in Lake
 Lochloosa, Florida

*Esmeralda Cruz
 Silva (E) Historia de la Ciencias 2019
 Vegetación de la Biológicas
 Península de Yucatán
 Durante los Últimos Dos
 Ciclos Interglacial-Glacial
 del Pleistoceno

*Universidad Nacional Autónoma de México (UNAM)

Megan E. LeBlanc (M)	Hydrology in the Highlands of Southern Peru: the Spring at Las Peñas	Anthropology	2018
Jesse Stephens (M)	Impact of Recreational Fisheries and Activities on the Aquatic Macrophyte Community of Rainbow River, Florida (USA)	Aquatic Sciences	2018
*Norma Fernanda Charqueño Celis	Comparación de las Comunidades Bénticas (Crustacea: Ostracoda y Cladocera) de Ecosistemas Acuáticos Epicontinentales del Estado de Quintana Roo, México	Limnología	2017
<u>*Universidad Nacional Autónoma de México (UNAM)</u>			
Chao Xiong (M)	Influence of Land Use and Climate Variability on Nutrient Concentrations in Florida Lakes	Fisheries and Aquatic Sciences	2017
Yasmin Quintana Morales (M)	Assessment of the Artisanal Giant Cichlid (<i>Petenia splendida</i>) Fishery in Lake Peten Itza, Guatemala	Interdisciplinary Ecology	2015
Kalindhi Larios (M)	Florida Wildfires During the Holocene Climatic Optimum (9,000-5,000 cal yr BP)	Interdisciplinary Ecology	2015
Kiernan Folz Donahue (M)	Glacial to Interglacial Climate and Sea-Level Changes Recorded in Submerged Speleothems, Argentarola, Italy	Geology	2014

Serdar Yedier	(M)	Color Enhancement in the Ornamental Red Zebra Cichlid, <i>Pseudotropheus estherae</i> by Addition of Carotenoids to the Diet	Fisheries and Aquatic Sciences	2013
Christopher Anderson	(M)	Nutrient Dynamics in Florida Springs and Relationships to Algal Blooms	Fisheries and Aquatic Sciences	2013
Carolyn Ball	(M)	Longitudinal and Seasonal Variations in Amplitude and Phase of Diel Carbonate Cycling in Clear, Spring-Fed Rivers	Geology	2012
Srifa Akeapot	(M)	Factors Controlling Zooplankton Dynamics in a Subtropical Lake During Cyanobacterial Bloom Events	Fisheries and Aquatic Sciences	2010
Linghan Dong	(M)	Phytoplankton Bloom dynamics in a nitrogen-limited subtropical lake	Fisheries and Aquatic Sciences	2010
Julie Mathis (Waters)	(M)	<i>Leptomeryx</i> During the Eocene-Oligocene Transition and the Internet Age: Studies on Enamel Morphology Change and Learning Via Social Media	Geology	2010
David Keellings	(E)	The Stochastic Properties of High Daily Maximum Temperatures	Geography	2010

Lauren Long	(M)	Evidence of Geologic Phosphorus from Groundwater Seepage to Newnans Lake, Florida	Interdisciplinary Ecology	2009
Felipe de la Parra	(M)	Palynological Changes Across the Cretaceous-Tertiary Boundary in Colombia, South America	Geology	2009
Brian Nelson	(M)	Ecotourism and the LGTBQ Community in Yucatan	Forest Resources & Conservation	2009
Mary Beth Day	(M)	Initiation of the Annual Flood Pulse in Tonle Sap Lake, Cambodia	Geology	2009
Dana Bigham	(M)	Statewide Assessment of Toxic Algal (Microcystin) Threat in Florida Lakes	Fisheries and Aquatic Sciences	2008
Diane Bennett	(M)	Amphibian Responses to Forest Management Practices in Southwestern Georgia	Environmental Engineering	2008
Fabiany Herrera	(M)	Neotropical Rainforest Origins: Paleoflora and Paleoclimate	Geology	2008
Shannon McMorro	(M)	Impacts of Road Crossings on Headwater Streams	Environmental Engineering	2008
Paula Mejia Vasquez	(M)	Floral Composition of a Lower Cretaceous Neotropical site Paleotropical Ecosystem Inferred from Quantitative Palynology	Botany	2007

David Garcia	(M)	Queq'chi Forestry Practices in a Guatemala Park	Anthropology	2007
Jenney L. Kellogg (Lazzarino)	(M)	Factors affecting Partial Pressure Carbon Dioxide Levels in Florida Lakes: pH, Aquatic Macrophytes, and Geology	Fisheries and Aquatic Sciences	2007
Kris Crockett	(M)	Assessment of Tree-Rings as a Record of Pre-Historic Stream Flow in a Subtropical Environment	Geology	2007
William Eckman	(M)	Algal Indicators in Lakes	Interdisciplinary Ecology	2007
Betsy Salisbury	(M)	Impact of Exotic Riparian Plants on a Florida Stream	Environmental Engineering	2007
Martin Anderson	(M)	Relationship Between Soil and Water Algal Species and Water/Land Use Quality in Florida Springs	Science	2007
Lisa Marie Mertz (Erickson)	(M)	Event Bed Preservation Potential in a St. Vincent Island Salt Marsh in Florida	Geology	2007
Andrea Gaughan	(E)	Spatial and Temporal Land-Cover Transformation in the Angkor Basin: a Changing Landscape in Cambodia, 1989-2005	Geography	2006
Michael Hillesheim	(M)	Climate Change in Central America During the Late Deglacial and Early Holocene Inferred from Lacustrine	Geology	2005

		Sediments in Lake Peten Itza, Guatemala		
Sarah Newell	(M)	An Analysis of Compound Specific Carbon Isotopes of Lipid Biomarkers: A Proxy for Paleoenvironmental Change in the Maya Lowlands of Peten, Guatemala	Geology	2005
Danny Coenen	(M)	Interannual Lake Temperature Trends as Indicators for Climatic Change in Florida	Interdisciplinary Ecology	2005
Jorge M. Gomez Moreno	(M)	Mercury Methylation in Aquatic Systems	Environmental Engineering	2005
Susan Badylak	(M)	Phytoplankton Community Structure in Tampa Bay, Florida USA	Fisheries and Aquatic Sciences	2005
Will A. Strong	(M)	Temporal Water Chemistry Trends Within Individual Springs and Within a Population of Florida Springs	Fisheries and Aquatic Sciences	2004
Jennifer Marie Martin (Miller)	(M)	Quantification of the Matrix Hydraulic Conductivity in the Santa Fe River Sink/Rise System with Implications for the Exchange of Water Between the Matrix and Conduits	Geology	2003
Mausner, Jesse (M)		Historical Sedimentology and Geochemistry of the Lower St. Johns River Estuary	Geology	2003

Jessica R. Frost	(M)	Ecology of Lake Griffin, a Hypereutrophic Cyanobacteria-Dominated Lake in Central Florida	Fisheries and Aquatic Sciences	2003
Marylea Hart	(M)	Evaluating the Preservation of Hurricane Deposits in Florida Coastal Sediments	Geology	2003
Chrysoula Mitraki	(M)	Ecology of a Large Greek Lake	Environmental Engineering	2003
Robin L. Johnson	(M)	Physical/Chemical Variability in Shallow Florida Lakes	Environmental Engineering	2002
Alicia Pearce	(M)	Contrasting Population structure of the loggerhead turtle (<i>Caretta caretta</i>) using mitochondrial and nuclear DNA markers	Fisheries and Aquatic Sciences	2001
Cara Stallman	(M)	Limnology	Environmental Engineering	2000
Andrew Muss	(M)	The Evolutionary Genetics of <i>Ophioblennius</i> (Blenniidae)	Fisheries and Aquatic Sciences	1999
Andrew Godley	(M)	Various Valuable Views: A Look at Perspectives on Ecotourism and Cultural Interaction with the Natural Environment in Celestun, Yucatan, Mexico	Latin American Studies	1997
Joel M. Andres	(M)	The Feasibility of Pb-210 dating of Wetland Flooded Soils from the Florida Everglades	Environmental Engineering	1994

Jason Curtis	(M)	Natural Variability of Late Pleistocene-Holocene Climates in the Caribbean from Isotopic and Trace Element Analysis of Lake Sediments (10,500 Years BP to Present)	Geology	1992
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Current PhD Students:

Prakhin Assavapanuvat	Geology
Julian Correa	Botany
Ashley Hamersma	Botany
Sky Hooler	(SUNY Albany Atm/Env Sci)
Jang, Hyungjoo	Geology
Heshan Liyanagedara	Zoology
Francisco Nares	Botany
Paul Pluta	Anthropology
Ashley Rutkoski	Anthropology
Juliana Rubinatto Serrano	Anthropology
Luis Torres	Geology
Emily Watts	Geology