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### EDUCATION

**Ph.D. – Geology** – University of Georgia, 2000. Major Advisor: Douglas E. Crowe.

Dissertation: Oxygen isotope analysis of ancient otoliths: A mid-Holocene record of El Niño variation and human adaptation from Peruvian archaeological sites.

**M.A. – Anthropology** – University of Georgia, 1995. Major Advisor: Elizabeth J. Reitz.

Thesis: Stable isotopic analysis of estuarine bivalves: towards a method of paleotemperature assessment.

**B.A. – Anthropology** – University of Georgia, 1990.

### EMPLOYMENT

2017-present Professor, University of Alabama, Department of Geological Sciences

2013-2020 Chair, University of Alabama, Department of Geological Sciences

2010-2017 Associate Professor, University of Alabama, Department of Geological Sciences.

2008-2013 Undergraduate Program Director, University of Alabama, Department of Geological Sciences.

2004-2010 Assistant Professor, University of Alabama, Department of Geological Sciences.

2002-2004 Postdoctoral Research Associate, Advanced Analytical Center for Environmental Sciences, Savannah River Ecology Laboratory.

2001-2002 Postdoctoral Fellow, University of Georgia, Department of Geology.

### PEER-REVIEWED PUBLICATIONS

\* denotes students under my advisement

Mays, J. R., DeWitt, T. J., Dharampall, P., **Andrus, C. F. T.**, and Findlay, R. H. in press. Frequent habitat migration, phenotypic plasticity, and vestigial ecophenotypy revealed by isotope based natal habitat inference in bluegill sunfish, *Lepomis macrochirus*. *Ecology and Evolution*.

Reitz, E. J., Hadden, C. S., Waselkov, G. A., and **Andrus C. F. T.**, 2021 Woodland-period fisheries on the north-central coast of the Gulf of Mexico. *Southeastern Archaeology*. 10.1080/0734578X.2021.1922214

- Bassett\*, C. N., and **Andrus, C. F. T.**, 2021 Examining the potential of Pacific abalone as a novel high-resolution archive of upwelling in the California Current. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 10.1016/j.palaeo.2021.110342
- Trofimova, T., Alexandroff, S., Mette, M., Tray, E., Butler, P., Campana, S., Harper, E., Johnson, A., Morrongiello, J., Peharda Uljevic, M., Schöne, B. R., Andersson, C., **Andrus, C. F. T.**, Black, B., Burchell, M., Carroll, M., DeLong, K., Gillanders, B., Grønkjær, P., Killam, D., Prendergast, A., Reynolds, D., Scourse, J., Shirai, K., Thebault, J., Trueman, C., and de Winter., N. J., 2020. Fundamental questions and applications of sclerochronology: community-defined research priorities. *Estuarine, Coastal and Shelf Science*. 245: 106977. 10.1016/j.ecss.2020.106977
- Fodrie J., Heck K. L., **Andrus C. F. T.**, and Powers S. P. 2020. Determinants of the nursery role of seagrass meadows in the sub-tropical Gulf of Mexico: inshore-offshore connectivity for snapper and grouper. *Marine Ecology Progress Series*. 647: 135–147. 10.3354/meps13403.
- Minzoni, R. T., Parker, L.E., Wallace, D. J., Lambert, W. J., Elliot, E. A., **Andrus C. F. T.**, Lehrmann, A. A. 2020. A 7,000-year record of floods and ecological feedbacks in Weeks Bay, Alabama, USA. *Science of the Total Environment*. 73. 10.1016/j.scitotenv.2020.140052.
- Sandweiss, D. H., **Andrus, C. F. T.**, Kelley, A. R., Maasch, K. A., Reitz, E. J., and Roscoe, P. B. 2020. Archaeological climate proxies and the complexities of reconstructing Holocene El Niño in coastal Peru. *Proceedings of the National Academy of Sciences*. 117: 8271-8279. 10.1073/pnas.1912242117.
- Collins, J., Scott, R. S., **Andrus, C. F. T.**, Moe-Hoffman, A., and Peacock, E., 2019 Refit and oxygen isotope analysis of freshwater mussel shells from the Tillar Farms Site (3DR30), southeast Arkansas. *Midcontinental Journal of Archaeology*. 45: 39-63. 10.1080/01461109.2019.1677999.
- Gillikin, D., Wanamaker, A.D., and **Andrus, C. F. T.**, 2019 Chemical Sclerochronology. *Chemical Geology*. 526: 1-6. 10.1016/j.chemgeo.2019.06.016.
- Zimmt, J. B., Lockwood, R., **Andrus, C. F. T.**, and Herbert, G. S., 2019 Sclerochronological basis for growth increment counting: a reliable technique for life-span determination of *Crassostrea virginica* from the Mid-Atlantic United States. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 516: 54-63. 10.1016/j.palaeo.2018.11.029.
- Etayo-Cadavid\*, M. F., **Andrus, C. F. T.**, Jones, K. B., and Hodgins, G. W. L. 2018. Subseasonal variations in marine radiocarbon reservoir age from pre-bomb *Donax obesulus* and *Protothaca asperrima* shell carbonate. *Chemical Geology*. 526: 110-116. 10.1016/j.chemgeo.2018.07.001.

- Bassett\*, C. N., **Andrus, C. F. T.**, and West, C. F. 2018. Implications for measuring seasonality in the marine bivalve, *Saxidomus gigantea*. *Chemical Geology*. 526: 36-48. 10.1016/j.chemgeo.2018.07.004.
- West, C. F., Burchell, M., and **Andrus, C. F. T.** 2018. Molluscs and paleoenvironmental reconstruction in island and coastal settings: variability, seasonality, and sampling. In Giovas, C. M., and LeFebre, M. J., eds. *Zooarchaeology in Practice: Case Studies in Methodology and Interpretation in Archaeofaunal Analysis*. Springer. Cham, Switzerland p.191-208.
- Lulewicz, I. H., Thompson, V. D., Pluckhahn, T. J., **Andrus, C. F. T.**, and Das, O. 2017. Exploring oyster (*Crassostrea virginica*) habitat collection via oxygen isotope geochemistry and its implications for ritual and mound construction at Crystal River and Roberts Island, Florida. *Journal of Island and Coastal Archaeology*. 13:3, 388-404. 10.1080/15564894.2017.1363096.
- Wei\*, J., **Andrus, C. F. T.**, and Perez-Huerta, A., 2017. *Semele corrugata* microstructure and oxygen isotope profiles as indicators of seasonality. in Dillehay, T. D., ed. *Where the Land Meets the Sea: Fourteen Millennia of Human Prehistory on the North Coast of Peru*. University of Texas Press. Austin, TX p.714-722.
- Sletten\*, H. R., Gillikin, D. P., Halfar, J., **Andrus, C. F. T.**, and Guzman, H., 2017. Skeletal growth controls on Mg/Ca and P/Ca ratios in tropical Eastern Pacific rhodoliths (coralline red algae). *Chemical Geology*. 465: 1-10. 10.1016/j.chemgeo.2017.05.010.
- Black\*, H. D., **Andrus, C. F. T.**, Lambert, W. J, Rick, T., and Gillikin, D. P., 2017.  $\delta^{15}\text{N}$  values in *Crassostrea virginica* shells provides earliest direct evidence for nitrogen loading to Chesapeake Bay. *Scientific Reports*. 7: 44241; 10.1038/srep44241.
- Sletten\*, H. R., **Andrus, C. F. T.**, Guzman, H. and Halfar, J., 2017. Re-evaluation of using rhodolith growth patterns for paleoenvironmental reconstruction: An example from the Gulf of Panama. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 465: 264–277. 10.1016/j.palaeo.2016.10.038.
- Darrow, E. S., Carmichael, R. H., **Andrus, C. F. T.**, and Jackson, E. H., 2017. From middens to modern estuaries, oyster shells sequester source-specific nitrogen. *Geochimica et Cosmochimica Acta*. 202: 39–56. 10.1016/j.gca.2016.12.023.
- Waselkov, G. A., **Andrus, C. F. T.**, and Plumb, G. E., eds. 2016. *A State of Knowledge of the Natural, Cultural, and Economic Resources of the Greater Mobile-Tensaw River Area*. Natural Resources Report NPS/NRSS/BRD/NRR 2016/1243. Biological Resources Division, National Park Service, Fort Collins, CO. pp.240.
- Plumb, G. E., Waselkov, G. A., **Andrus, C. F. T.**, and Finch B., 2016. A greater Mobile-Tensaw area: connections and consequences. In Waselkov, G. A., **Andrus, C. F. T.**, and Plumb, G. E., eds. *A State of Knowledge of the Natural, Cultural, and Economic Resources of the*

*Greater Mobile-Tensaw River Area*. Natural Resources Report NPS/NRSS/BRD/NRR 2016/1243. Biological Resources Division, National Park Service, Fort Collins, CO. p. 185-193.

- Gagnon, C. M., **Andrus, C. F. T.**, Ida, J., and Richardson, N. 2015. Local water source variation and experimental chicha de maíz brewing: implications for interpreting human hydroxyapatite  $\delta^{18}\text{O}$  values in the Andes. *Journal of Archaeological Science: Reports*. 4: 174–181.
- Thompson, V. D., Pluckhahn, T. J., Das, O. and **Andrus, C. F. T.** 2015, Assessing village life and monument construction (cal. AD 65-1070) along the Central Gulf Coast of Florida through stable isotope geochemistry. *Journal of Archaeological Science: Reports*. 4: 111–123.
- Blitz, J. H., **Andrus, C. F. T.**, and Downs, L. 2014 Sclerochronological measures of seasonality at a Late Woodland mound on the Mississippi Gulf Coast. *American Antiquity*. 79: 697-711.
- Thompson, V. D. and **Andrus, C. F. T.** 2013. Using oxygen isotope sclerochronology to evaluate the role of small islands among the Guale of the Georgia Coast, USA. *Journal of Island and Coastal Archaeology*. 8: 190-209. 10.1080/15564894.2012.708007
- Etayo-Cadavid\*, M. F., **Andrus, C. F. T.**, Jones, K. B., Hodgins, G. W. L., Sandweiss, D. H. Uceda-Castillo, S., and Quilter, J. 2013. Marine radiocarbon reservoir age variation in *Donax obesulus* shells from Northern Peru: Late Holocene evidence for extended El Niño. *Geology*. 41: 599–602.
- Pérez-Huerta, A. Etayo-Cadavid\*, M. F., **Andrus, C. F. T.**, Jeffries, T. E., Watkins, C., Street, S.C., and Sandweiss, D. S. 2013. El Niño impact on mollusk biomineralization - Implications for trace element proxy reconstructions and the paleo-archeological record. *PLoS ONE* 8: e54274.
- Andrus C. F. T.** 2012. Isotope sclerochronology in southeastern US archaeology to estimate season of capture. in Reitz, E. J, Quitmyer, I. R., and Thomas, D. H. eds. Seasonality and Human Mobility along the Georgia Bight. *American Museum of Natural History Anthropological Papers*. 97: 123-133.
- Andrus, C. F. T.**, and Thompson, V. D. 2011. Determining the habitats of mollusk collection at the Sapelo Island Shell Ring complex, Georgia, USA using oxygen isotope sclerochronology. *Journal of Archaeological Science*. 39: 215-228.
- Andrus, C. F. T.** 2011. Shell midden sclerochronology. *Quaternary Science Reviews*. 30: 2892-2905.
- Thompson, V. D. and **Andrus, C. F. T.** 2011. Evaluating mobility, monumentality, and feasting at the Sapelo Island Shell Ring Complex. *American Antiquity*. 76: 315-343.

- Pérez-Huerta, A. and **Andrus, C. F. T.** 2010. Vital effects in the context of biomineralization. *in* Díaz, L. F. and García-Monge, J. M. A. eds., *Biomaterials and biomineralization processes. Seminarios de la Sociedad Española de Mineralogía*: Madrid. 7: 31-41.
- Jones, K. B., Hodgins, G. W. L., Etayo-Cadavid\*, M. F., **Andrus, C. F. T.**, and Sandweiss, D. H., 2010. Centuries of marine radiocarbon reservoir age variation within archaeological *Mesodesma donacium* shells from southern Peru. *Radiocarbon* 52: 1207-1214.
- Jones, K. B., Hodgins, G. W. L., **Andrus, C. F. T.**, and Etayo-Cadavid\*, M. F., 2010. Modeling molluscan marine reservoir ages in a variable-upwelling environment: *Palaeos*. 25: 126-131. 10.2110/palo.2009.p09-050r.
- Jones, K. B., Hodgins, G. W. L., Etayo-Cadavid\*, M. F., and **Andrus, C. F. T.** 2009. Upwelling signals in radiocarbon from early 20th century Peruvian bay scallop (*Argopecten purpuratus*) shells. *Quaternary Research*. 72: 452-456. 10.1016/j.yqres. 2009.07.008.
- Romanek, C. S., Beard, B. L., Anbar, A. D. and **Andrus, C. F. T.** 2009. Non-traditional stable isotopes in the environmental sciences, *in* Aelion, C. M., Hohener, P., Hunkeler, D., and Aravena, R. eds., *Environmental isotopes in bioremediation and microbial degradation processes*. Boca Raton, FL , CRC Press, p. 383-433.
- Andrus, C. F. T.**, and Rich\*, K. W., 2008, A preliminary assessment of oxygen isotope fractionation and growth increment periodicity in the estuarine clam *Rangia cuneata*. *Geo Marine Letters*. 28: 301-308. 10.1007/s00367-008-0109-3.
- Reitz, E. J., **Andrus, C. F. T.**, and Sandweiss, D. H. 2008. Ancient fisheries and marine ecology of coastal Peru, *in* Rick, T. C., and Erlandson, J. M. eds., *Human impacts on ancient marine ecosystems*. University of California Press, p. 125-145.
- Andrus, C. F. T.** and Crowe, D. E., 2008, Isotope analysis as a means for determining season of capture for *Mercenaria*, *in* Thomas, D. H., ed., *Native American Landscapes of St Catherine's Island, Georgia. American Museum of Natural History Anthropological Papers*. 88: 498-518.
- Andrus, C. F. T.**, Sandweiss, D. H. and Reitz, E. J., 2008, Climate change and archaeology: The Holocene history of El Niño on the coast of Peru, *in* Reitz, E. J., Scarry, M. C., and Scudder, S. J., eds. *Case Studies in Environmental Archaeology*, (Second Edition): New York, Plenum Press, p. 143-157.
- Jones, K. B., Hodgins, G. W. L., Dettman, D. L., **Andrus, C. F. T.**, Nelson, A., and Etayo-Cadavid\*, M. F. 2007. Seasonal variations in Peruvian marine reservoir age from pre-bomb *Argopecten purpuratus* shell carbonate. *Radiocarbon*. 49: 877-888.
- Sandweiss, D. H., Maasch, K. A., **Andrus, C. F. T.**, Reitz, E. J., Riedinger-Whitmore, M., Richardson, J. B., and Rollins, H. B. 2007. Mid Holocene Climate and Culture Change in

Coastal Peru, in Anderson, D. G., Maasch, K. A. and Sandweiss, D. H., eds., *Climate change and cultural dynamics: A global perspective on mid-Holocene transitions*: Academic/Elsevier Press, p. 25-50.

**Andrus, C. F. T.**, Hodgins, G. W. L., Sandweiss, D. H., and Crowe, D. E. 2005. Molluscan radiocarbon as a proxy for El Niño-related upwelling variation in Peru, in Surge, D., and Mora, G., eds., *Isotopic and Elemental Tracers of Late Quaternary Climate Change. Geological Society of America Special Paper.* 395: 13-19.

Jones, D. S., Quitmyer, I. R., and **Andrus, C. F. T.** 2005. Oxygen isotopic evidence for greater seasonality in Holocene shells of *Donax variabilis* from Florida. *Palaeogeography, Palaeoclimatology, Palaeoecology.* 228: 96-108.

Quitmyer, I. R., Jones, D. S. and **Andrus, C. F. T.** 2005. Seasonal shell growth and oxygen isotopes ( $\delta^{18}\text{O}$ ) in the variable coquina clam, *Donax variabilis* Say, 1822: A modern analogue to determine the season of resource procurement during the Late Archaic Period of coastal northeast Florida, USA, in Bar-Yosef Mayer, D., ed., *Archaeomalacology: Molluscs in Former Environments of Human Behavior*: Proceedings of the Archaeomalacology Symposium of the 9<sup>th</sup> International Council for Zooarchaeology, Oxford, UK, Oxbow Press, p.18-28.

Sandweiss, D. H., Maasch, K. A., Chai, F., **Andrus, C. F. T.**, and Reitz, E. J. 2004. Geoarchaeological evidence for fish regime shift linked to multidecadal Pacific climate change. *Quaternary Research.* 61: 330-334.

Jones, D. S., Quitmyer, I. R., and **Andrus, C. F. T.** 2004. Seasonal shell growth and longevity in *Donax variabilis* from northeastern Florida: evidence from oxygen isotopes. *Journal of Shellfish Research.* 23: 707-714.

**Andrus, C. F. T.**, Crowe, D. E., Sandweiss, D. H., Reitz, E. J., Romanek, C. S., and Maasch, K. A., 2003, Comment on “Otolith  $\delta^{18}\text{O}$  record of mid-Holocene sea surface temperature in Peru” – response. *Science.* 299: 203b.

**Andrus, C. F. T.** and Crowe, D. E. 2002. Alteration of otolith aragonite: Effects of prehistoric cooking methods on otolith chemistry. *Journal of Archaeological Science.* 29: 291-299.

**Andrus, C. F. T.**, Crowe, D. E., Sandweiss, D. H., Reitz, E. J., and Romanek, C. S. 2002. Otolith  $\delta^{18}\text{O}$  record of mid-Holocene sea surface temperature in Peru. *Science.* 295: 1508-1511.

**Andrus, C. F. T.**, Crowe, D. E. and Romanek, C. S. 2000, Oxygen isotope record of the 1997-1998 El Niño in Peruvian sea catfish (*Galeichthys peruvianus*) otoliths. *Paleoceanography* 17: 1053-1060. 10.1029/2001PA000652.

**Andrus, C. F. T.** and Crowe, D. E. 2000. Geochemical analysis of *Crassostrea virginica* as a method to determine season of capture. *Journal of Archaeological Science.* 27: 33-42.

Weinand, D. C., **Andrus, C. F. T.**, and Crook, M. R. 2000. The identification of cownose ray (*Rhinoptera bonasus*) as a seasonal indicator species and implications for coastal Mississippian subsistence modeling. *Southeastern Archaeology* 19: 156-162.

#### PEER-REVIEWED ABSTRACTS

Warner, J., DeLong, K., Chicoine D., Thirumalai, K, **Andrus. C. F. T.** and Wanamaker, A. 2020 Eastern Pacific El Niño-Southern Oscillation variability~ 400-200 BCE: perspectives from a dual-archive approach. American Geophysical Union Fall Meeting Abstract OS015-0010.

Voorhies, B., **Andrus, C. F. T.**, Bassett\*, C. N., and Moyes, H., 2020. Determination of ritual seasonality at a prehistoric Maya shrine: preliminary results. Society for American Archaeology *Program* 85: 580. (abstract published, but meeting cancelled due to pandemic)

West, C. F., Etnier, M. A., **Andrus, C. F. T.**, Funk, C., and Partlow, M. 2020. On the Ice Edge: Abrupt Climate Change in the Aleutian Islands. Society for American Archaeology *Program* 85: 595-596. (abstract published, but meeting cancelled due to pandemic)

**Andrus, C. F. T.**, Bassett\*, C. N., Voorhies, B., Collins, J. D., and Peacock, E. 2019 Challenges and applications of oxygen isotope analysis of season of capture of freshwater mollusks. 5<sup>th</sup> International Sclerochronology Conference, *Book of Abstracts*. pp. 27.

Bassett\*, C. N., **Andrus, C. F. T.**, West, C. F., and Etnier, M., 2019. Fact or Fiction? Exploring the possibility of neoglacial sea ice off the coast of Unalaska. 5<sup>th</sup> International Sclerochronology Conference, *Book of Abstracts*. pp. 28.

Bassett\*, C. N., and **Andrus, C. F. T.**, 2019. Examining the potential of Pacific abalone as a novel high resolution archive of seasonal upwelling in the Channel Islands, CA, USA. 5<sup>th</sup> International Sclerochronology Conference, *Book of Abstracts*. pp. 101.

Warner, J., DeLong, K., Chicoine D., **Andrus. C. F. T.**, Thirumalai, K, and Wanamaker, A. 2019. Local perspectives on ENSO mean states ~2300 B.P. and now:  $\delta^{18}\text{O}$  reconstructions from the short-lived bivalves *Donax obesulus* and *Mesodesma donacium*. 5<sup>th</sup> International Sclerochronology Conference, *Book of Abstracts*. pp. 91.

Bassett\*, C. N., **Andrus, C. F. T.**, West, C. F., and Etnier, M., 2018. Fact or Fiction? Neoglacial sea ice off the coast of Unalaska. *Oceans Past VII Book of Abstracts*, pp 38.

Warner, J., DeLong, K., Chicoine D., Wanamaker, A. **Andrus. C. F. T.**, and Thirumalai, K. 2018 Local perspectives on ENSO variability ~2300 BP and now: evidence from two short lived intertidal bivalves: *Mesodesma donacium* and *Donax obesulus*. American Geophysical Union Fall Meeting Abstract PP43D-1958.

**Andrus, C. F.T.**, Bassett\*, C., Black\*, H. D., Payne\*, T. N. 2017. Nitrogen isotope analyses in mollusk shell: applications to environmental sciences and archaeology. American Geophysical Union Fall Meeting Abstract PP53D-03.

- Reitz., E. J., Hadden, C. S., Little, M., Waselkov, G. A., **Andrus, C. F. T.**, and Peacock, E. 2017 Woodland-period Seasonality on the Northern Coast of the Gulf of Mexico. *Southeastern Archaeological Conference Bulletin* 60: 83.
- Andrus, C. F. T.**, Kelley, A, and Sandweiss, D. H. 2017 Productivity in a human context: creating and applying proxies relevant to Chicama Valley archaeology. *Society for American Archaeology Program* 82: 382.
- Andrus, C. F. T.** 2016. Human adaptation to seasonal climate variation in prehistoric coastal southeastern USA. *Geological Society of America Abstracts with Programs*. v. 48.
- Bassett\*, C. N., **Andrus, C. F. T.**, and West, C. F., 2016. Clams and climate in the Kodiak Archipelago, Alaska: insights from oxygen isotope sclerochronological analysis of *S. gigantea* from middle to late Holocene archaeological deposits. *Geological Society of America Abstracts with Programs*. v. 48.
- Zimmt, J. B., Lockwood, R., **Andrus, C. F. T.**, and Herbert, G. S., 2016. Revisiting growth increment counting as a method for biologically aging *Crassostrea virginica* from the US Mid-Atlantic. *Geological Society of America Abstracts with Programs*. v. 48.
- Andrus, C. F. T.**, Payne\*, T., and Black\*, H. D. 2016. Archaeological applications of molluscan nitrogen isotope analyses. 4<sup>th</sup> International Sclerochronology Conference. *Program and Abstracts* p. 28.
- Bassett\*, C. N, **Andrus, C. F. T.**, West, C. F., and Etnier, M. A. 2016. Clams and climate: Implications for reconstructing paleoseasonality in southern Alaska. 4<sup>th</sup> International Sclerochronology Conference. *Program and Abstracts* p. 31.
- Andrus, C. F. T.**, 2016. Assessment of past subsistence strategy and environmental impacts using novel geochemical analyses of mollusk shells. *Society for American Archaeology Program* v. 81, p. 133.
- Sandweiss, D. H., and **Andrus, C. F. T.** 2016. The Reitz stuff: -a faunal perspective on El Niño from coastal Peru. *Society for American Archaeology Program* 81: 28.
- Lulewicz, I., Thompson, V. D., Pluckhahn, T., Das, O., and **Andrus, C. F. T.** 2016. From habitat exploitation to monument construction: exploring the nature of shell deposits at Crystal River and Roberts Island through stable isotope geochemistry. *Society for American Archaeology Program* v. 81, p. 132.
- Andrus, C. F. T.** 2016. Oxygen isotope season of capture estimates in mollusks may be incorrect, yet the method is still useful. International Council for Archaeozoology Stable Isotopes in Zooarchaeology 1<sup>st</sup> Working Group Meeting *Program* v. 1, p. 14.
- Bassett\*, C. N, West, C. F., Etnier, M. A., and **Andrus, C. F. T.** 2016. Clams and climate: implications for reconstructing past environments in Southern Alaska. International Council



for Archaeozoology Stable Isotopes in Zooarchaeology 1<sup>st</sup> Working Group Meeting  
*Program 1*: 19.

- Payne\*, T. N. and **Andrus, C. F. T.** 2016. Archaeological Applications of  $\delta^{15}\text{N}$  obtained from mollusk shells. International Council for Archaeozoology Stable Isotopes in Zooarchaeology 1<sup>st</sup> Working Group Meeting *Program v. 1*, p. 21.
- Lulewicz, I., Thompson, V. D., Pluckhahn, T., Das, O., and **Andrus, C. F. T.** 2016. Reimagining the complexity of shell deposits at Crystal River and Roberts Island Shell Mound Complex through oxygen isotope geochemistry. International Council for Archaeozoology Stable Isotopes in Zooarchaeology 1<sup>st</sup> Working Group Meeting *Program v. 1*, p. 15.
- Darrow, E. S, Carmichael, R. H., **Andrus, C. F. T.**, and Jackson, E. H. 2016. Organic stable isotopes in ancient oyster shell trace pre-colonial nitrogen sources. American Geophysical Union, Ocean Science Meeting Abstract 90592.
- Bassett\*, C. N., and **Andrus, C. F. T.** 2015. Sclerochronological analysis of *Saxidomus gigantea*: Implications for reconstructing past seasonality and sea ice extent in the Northern Pacific Ocean. American Geophysical Union Fall Meeting Abstract PP53B-2341.
- Payne\*, T. N. and **Andrus, C. F. T.** 2015.  $\delta^{15}\text{N}$  as a proxy for historic anthropogenic nitrogen loading in Charleston Harbor, SC. American Geophysical Union Fall Meeting Abstract PP53B-2343.
- Das, O., Robinson, D. M., Andrus, C. F. T., Mandal, S., Sen, K., and Khanal S. 2015. Stable isotopic variation of the Gangolihat and Deoban Formations in Garhwal-Kumaun, northwestern India: implications for the correlation of the Lower Lesser Himalayan stratigraphy. *Geological Society of America Abstracts with Programs*. v. 47, p. 584.
- Andrus, C. F. T.**, Das, O., and Thompson, V. D. 2014. Assessing the precision and accuracy of oxygen isotope seasonality reconstructions derived from midden mollusks. *Geological Society of America Abstracts with Programs*. v. 46, p.52.
- West, C. F., **Andrus, C. F. T.**, Eitner, M., and Burchell, M. 2014. Abrupt climate change in the Aleutian Islands, Alaska. *Geological Society of America Abstracts with Programs*. v. 46, p.53.
- Sletten\*, H. R., **Andrus, C. F. T.**, Gillikin, D. P., and Halfar, J. 2014. Preliminary growth and trace elemental characterization of rhodoliths (*Lithothamnion* sp.) from the Gulf of Panama, Panama. *Geological Society of America Abstracts with Programs*. v. 46, p.128.
- West, C. F., **Andrus, C. F. T.**, and Eitner, M. 2014. Abrupt Climate Change in the Aleutian Islands, Alaska. *International Conference of Archaeozoology Abstracts*. v. 12, p.164.
- Andrus, C. F. T.**, Das, O., and Cobb, R. M., 2014. Subseasonal geochemical and sclerochronological variations in coastal mollusk shells. *Goldschmidt 2014 Abstracts*: 54.

- Black\*, H. D., **Andrus, C. F. T.**, Rick, T., Hines, A. 2014.  $\delta^{15}\text{N}$  as a potential paleoenvironmental proxy for nitrogen loading in Chesapeake Bay. *Goldschmidt 2014 Abstracts*: 212
- Nicosia, A., Pérez-Huerta, A., Sandweiss, D. H., and **Andrus, C. F. T.** 2014. The effects of the 1982-1983 El Niño mega-event on bivalve mollusc shells. *Goldschmidt 2014 Abstracts*: 1808.
- West, C. F., Burchell, M., and **Andrus, C. F. T.** 2014. Shellfish and paleoenvironmental reconstruction in island and coastal settings: variability, seasonality, and sampling. Society for American Archaeology *Program 79*.
- Gagnon, C. M, Richardson, N., **Andrus, C. F. T.**, and Ida, J. 2014. Experimental chicha brewing: implications for interpreting skeletal  $\delta^{18}\text{O}$  values in the Andes. Society for American Archaeology *Program 79*.
- Black\*, H. D., **Andrus, C. F. T.**, Rick, T., and Hines, A. 2013.  $\delta^{15}\text{N}$  as a potential paleoenvironmental proxy for nitrogen loading in Chesapeake Bay. American Geophysical Union Fall Meeting Abstract PP13A-1864.
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- West, C. F. and **Andrus, C. F. T.** 2013. High-resolution sampling of *Saxidomus gigantea* in the Kodiak Archipelago. Society for American Archaeology *Program v. 78*, p. 435.
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- Rich\*, K. W. and **Andrus, C. F. T.** 2007. Growth patterns and storm surge effects in the estuarine mollusk *Rangia cuneata*. 1<sup>st</sup> International Sclerochronology Conference, *Program and Abstract Book* p. 109.
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- Andrus, C. F. T.**, Romanek, C. S., and Sedberry, G. R. 2006. Isotopic records of growth in deepwater Stylasteridae corals (Cnidaria: Hydrozoa): Ecological and paleoclimatic implications. *Geological Society of America Meeting Program* 222-1.

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- Keller\*, S. M., Etayo-Cadavid\*, M. F., **Andrus, C. F. T.**, Chapman\*, P., Ramirez\*, V., Wilson\*, C., and Callahan\*, J. 2006.  $\delta^{18}\text{O}$  analysis of *Crassatellites vadosus* from the Late Cretaceous Coon Creek Formation. *SE Geological Society of America. Abstracts with Program v. 55*, p. 11-1.
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- Andrus, C. F. T.**, Hodgins, G. W. L., and Sandweiss, D. H. 2005. Seasonal Variation in Upwelling Recorded in Peruvian Mollusks: Implications for Reservoir Correction Estimates. *American Geophysical Union – Eos Transactions*. American Geophysical Union, 86(52) Fall Meeting Supplement. Abstract PP21C-1580.
- Andrus, C. F. T.**, Sedberry, G. R., and Romanek, C. S. 2005. Geochemical profiles of corals from a dynamic habitat: Charleston Bump, NW Blake Plateau. 3<sup>rd</sup> International Symposium on Deep-Sea Corals: Science and Management. *Program and Abstract Book* p. 60.
- Quitmyer, I. R., Jones, D. S. and **Andrus, C. F. T.** 2005. Seasonal Collection and Climate Reconstruction from Shells of the Variable Coquina Clam *Donax variabilis* during the Middle to Late Holocene of Northeastern Florida: Evidence from Oxygen Isotopes. *Southeastern Archaeology Conference. Bulletin v. 62*, p. 54.
- Reitz, E. J., **Andrus, C. F. T.**, and Sandweiss, D. H. 2005. Ancient Fisheries and Marine Ecology of Coastal Perú. *Society for American Archaeology Program 70*.

- Andrus, C. F. T.**, Romanek, C. S. and Sedberry, G. R. 2004. Geochemical cyclicality in colonial deepwater corals from the Charleston Bump, Blake Plateau. *Geological Society of America Meeting Program* 121-25.
- Andrus, C. F. T.**, Carroll, M., Romanek, C. S., Stephenson, D. K., and King, A. 2004. Mussel shell geochemistry as a means of measuring season of capture in fluvial and lacustrine sites. Society for American Archaeology *Program* 69.
- Jones, D. S., Quitmyer, I. R., and **Andrus, C. F. T.** 2004. Stable isotope evidence of Middle to Late Holocene seasonality and temperature change in archaeological coquina clam shells from Florida. *Eos Transactions American Geophysical Union – Ocean Science Meeting Supplement*.
- Jones, D. S., Quitmyer, I. R., and **Andrus, C. F. T.** 2004. Seasonal shell growth and longevity in the variable coquina clam, *Donax variabilis*, from Northeast Florida: Evidence from oxygen isotopes. *American Malacological Society Abstracts* v. 70, p. 46.
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- Andrus, C. F. T.**, Crowe, D. E., and Sandweiss, D. H. 2001. Development and application of otoliths as paleoclimate proxies. American Geophysical Union – *Eos Transactions*. American Geophysical Union, Fall Meeting Supplement, 82(47).
- Andrus, C. F. T.**, Crowe, D. E., and Sandweiss, D. H. 2000. Anthropogenic induration of sediments at the Terminal Pleistocene Peruvian site Quebrada Jaguay. *Geological Society of America Meeting Program* A276.

Weinand, D. C., **Andrus, C. F. T.**, and Crook, M. R. 2000. Discovery and significance of cownose ray (*Rhinoptera bonasus*) Southeastern Archaeology Conference. *Bulletin* 57: 50 (invited).

**Andrus, C. F. T.**, Crowe, D. E., and Sandweiss, D. H. 2000. Climate change and subsistence strategy in mid-Holocene Peru: Geochemical evidence of ENSO variation. Society for American Archaeology *Program* v. 65, p. 30.

Sandweiss, D. H, Tanner, B., Sanger, D., and **Andrus C. F. T.** 2000. Paleoindian-age domestic structure at a Peruvian fishing site. Society for American Archaeology *Program* v. 65, p. 48.

Reitz, E. J. and **Andrus, C. F. T.** 2000. Interpretations of zooarchaeological and geoarchaeological data for evidence of mid-Holocene climate change in Northern Peru. *SE Geological Society of America. Abstracts with Program* v. 49, p. 45.

**Andrus, C. F. T.**, Crowe, D. E., and Sandweiss, D. H. 1999. Geochemical evidence of mid-Holocene ENSO variation derived from otoliths. American Geophysical Union – *Eos Transactions*, American Geophysical Union, Fall Meeting Supplement 80: F575

**Andrus, C. F. T.** and Crowe, D. E. 1999. Geochemical determination of Hard Clam season of capture from five sites on St. Catherine’s Island, Georgia. Southeastern Archaeological Conference. *Bulletin* v. 56, p. 18-19.

**Andrus, C. F. T.**, Crowe, D. E., and Sandweiss, D. H. 1998. Mid-Holocene El Niño variation recorded in otoliths from Preceramic Peruvian middens. *Geological Society of America Meeting Program* A-16.

**Andrus, C. F. T.**, Crowe, D. E., and Sandweiss D. H, 1998. Laser microprobe analysis of otoliths: New methods and applications from mid-Holocene Peru. *8<sup>th</sup> International Congress of the International Council for Zooarchaeology. Final Program and Abstracts.* v. 8, p. 40.

**Andrus, C. F. T.** 1995. Laser microprobe analysis of estuarine bivalves. *Geological Society of America Meeting Program* A-415.

**Andrus, C. F. T.** 1994. Laser mass spectrometry: Analysis of bivalves and broader applications. Southeastern Archaeological Conference. *Bulletin* v. 50, p. 20.

#### **REPORTS AND NON-PEER-REVIEWED PUBLICATIONS**

Sandweiss, D.H., **Andrus, C. F.T.**, Chai, F. Kelley, A. R. Maasch, K. A., and Reitz, E.J. 2016 Re: ENSO Variability and Archaeological Proxies (Comment on Rustic et al. 2015, Dynamical excitation of the tropical Pacific Ocean and ENSO variability by Little Ice Age cooling, *Science* 350:1537-1541). *Science e-Letters*  
<http://science.sciencemag.org/content/350/6267/1537.e-letters>>



- Black\*, H. D. and **Andrus, C. F. T.** 2012. Taphonomy and Diagenesis on the Deep-Sea Hydrocoral *Stylaster erubescens* Fossils from the Charleston Bump. *The University of Alabama McNair Journal*. v. 12, p. 19-40.
- Sanders\*, B. K., Conaway, M., and **Andrus, C. F. T.** 2010. Does the Debate Still Rage? A Survey Assessment of University of Alabama Students' Thoughts on Evolution and Faith. *The University of Alabama McNair Journal*. v. 10, p. 121-138.
- C. F. T. Andrus.** 2009. Final Report on: Documentation of Historical Water Quality and Chemistry Regimes in Mobile Bay and Choccolatta Bay through Isotope Analysis and Mollusk Species Composition: Evidence for hurricane impacts Grant number UA-CZM 306-08-2.
- Cobb\*, R. M., **Andrus, C. F. T.**, and Etayo-Cadavid\*, M. F. 2009. *Rangia cuneata* shells as an environmental proxy: Variations in elemental concentrations within populations. *The University of Alabama McNair Journal*. v. 9, p. 45-58.
- C. F. T. Andrus.** 2008. Final Report on: "Documentation of Historical Water Quality and Chemistry Regimes in Mobile Bay and Choccolatta Bay through Isotope Analysis and Mollusk Species Composition" Alabama Department of Conservation and Natural Resources.
- C. F. T. Andrus.** 2008. Progress Report on: "Assessment of Historical Salinity Variation in Choccolatta & Mobile Bays: Phase II." Alabama Department of Conservation and Natural Resources.
- C. F. T. Andrus.** 2008. Progress Report on: "Documentation of Historical Water Quality and Chemistry Regimes in Mobile Bay and Choccolatta Bay through Isotope Analysis: Evidence for Hurricane Storm Surge Impacts." Alabama Department of Conservation and Natural Resources.
- C. F. T. Andrus.** 2007. Semi-Annual Report to the Alabama Department of Conservation and Natural Resources: "Documentation of Historical Water Quality and Chemistry Regimes in Mobile Bay and Choccolatta Bay through Isotope Analysis" Alabama Department of Conservation and Natural Resources.
- C. F. T. Andrus.** 2006. Final report and data collected for the preliminary pilot study: "Documentation of Historical Water Quality and Chemistry Regimes in Mobile Bay and Choccolatta Bay through Isotope Analysis and Mollusk Species Composition" Alabama Department of Conservation and Natural Resources.
- Sedberry, G. R., **Andrus, C. F. T.**, Barans, C. A., Crowe, S. E., Fiore, C. L., Griffin, S. B., Jutte, P. C., Sautter, L. R., and Schobernd, C., M. 2005. Mounds, depressions, scarps and caves: Exploration of habitat and species diversity on the Charleston Bump and Blake Plateau. NOAA Office of Ocean Exploration. Project number NA03OAR4600097.

## **PUBLIC DATABASE/ARCHIVE CONTRIBUTIONS**

- 2015 Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC)  
2011 Natural History Collections, Smithsonian Institution – Field samples from Peru and Chile  
2003 NOAA National Centers for Environmental Information – Molluscan oxygen isotope data  
2002 NASA Goddard Institute: Global Seawater Oxygen-18 Database – Peruvian coastal seawater  
2002 NOAA National Centers for Environmental Information – Otolith and water oxygen isotope and trophic data

## **FUNDING**

- 2021  
\$3671 Principal Investigator. “Measuring changes in seasons related to sea ice in the Bering Sea using clam growth increments” German Academic Exchange Network (DAAD) Scholarship for University Academics and Scientists.
- 2018-2020  
\$201,695 (total)  
\$52,276 to Alabama Co-Principal Investigator. (Collaborating PI’s Sally Walker, UGA, David Gillikin, Union College, Alberto Perez-Huerta, U. of Alabama)  
“Collaborative research: The Antarctic scallop as key to paleoenvironments and sea ice conditions: understanding the modern to predict the past” National Science Foundation - Polar Programs PLR- 1745064.
- 2016-2020  
\$700,000 (total)  
\$132,780 to Alabama Principal Investigator (Collaborating PI’s Catherine West, Boston U., and Michael Etnier, Portland State). “Collaborative research: An examination of human social and cultural adaptation through archaeological and paleoclimate data from the Aleutian Islands” National Science Foundation - Polar Programs PLR- 1523034.
- 2014-2015  
\$4,255 Principal Investigator. “State of knowledge and synthesis of the natural, cultural, and economic conservation resources of the lower Alabama River area” National Park Service (pass through U. of S. Alabama PI Greg Waselkov).
- 2010-2013  
\$139,965 (total)  
\$34,204 to Alabama Principal Investigator (Collaborating PI’s Elizabeth Reitz, U. of Georgia and Greg Waselkov, USA). “Collaborative research: Woodland subsistence seasonality on the northern coast of the Gulf of Mexico” National Science Foundation - Archaeology BCS-1026166.
- 2010-2012  
\$200,000 Principal Investigator (co-PI’s Alberto Perez-Huerta and Paul Aharon). “Acquisition of a gas-source isotope ratio mass spectrometer (GS-IRMS) to upgrade the University of Alabama Geological Sciences Stable Isotope Laboratory” National Science Foundation - Instruments and Facilities EAR 0949303.
- 2011-2012  
\$31,050 Principal Investigator. “BP/MESC: Sentinel macrofauna: isotopic records of oil exposure in oyster shells” MESC Gulf Research Initiative (BP Oil Spill Research Fund).

2010-2011 \$50,000	Principal Investigator “Growth rates in deep-sea stylasterid corals off the southeastern U.S.” NOAA Coral Reef Conservation Program. Pass-through George Sedberry, Gray’s Reef National Marine Sanctuary.
2008-2009 \$97,660	Co-Principal Investigator (PI Harold Stowell). "Upgrade of the University of Alabama JEOL 8600 electron probe microanalyzer" National Science Foundation - Instruments and Facilities EAR-0744467.
2007-2009 \$20,000	Principal Investigator. “Documentation of historical water quality and chemistry regimes in Mobile Bay and Choccolatta Bay through isotope analysis and mollusk species composition: evidence for hurricane impacts.” Alabama Department of Conservation and Natural Resources.
2006-2007 \$20,000	Principal Investigator. “Isotopic records of historical salinity variation in Choccolatta and Mobile Bays.” Alabama Department of Conservation and Natural Resources.
2005-2009 \$598,295 \$153,058 to Alabama	Principal Investigator (collaborating PI’s Greg Hodgins, U. of Arizona and (total) Dan Sandweiss, U. of Maine). “Collaborative research: molluscan radiocarbon as a proxy for upwelling in Holocene Peru." National Science Foundation – Earth System History. OCE-0502533.
2006 \$9,000	Principal Investigator. “Documentation of historical water quality and chemistry regimes in Mobile Bay and Choccolatta Bay through isotope analysis and mollusk species composition” Alabama Department of Conservation and Natural Resources.
2005-2006 \$5,000	Principal Investigator. “Continuous multi-proxy paleoclimate reconstruction from Lake Jackson, Alabama” University of Alabama Research Advisory Committee.
2004-2006 \$119,320 (total) \$9,460 to Alabama	Primary Participant. (George Sedberry - PI) “Estuary to the abyss: exploring along the latitude 31-30 transect - coral research” NOAA – Explore.
2003-2006 \$86,237 (total) \$11,600 to Andrus	Collaborator. (George Sedberry – PI, in collaboration with Chris Romanek) “Mounds, depressions, scarps and caves: exploration of habitat and species diversity on the Charleston Bump and Blake Plateau.” NOAA – Explore.
2003-2006 \$8,400	Collaborator. (George Sedberry – PI, in collaboration with Chris Romanek) Funding for wreckfish otolith oxygen isotope research. South Carolina Department of Natural Resources
1999 \$2,000	Principal Investigator. Funded field collections in Peru. Geological Society of America.

1999 \$1,200	Principal Investigator. “Mid-Holocene paleo-ENSO determination via geoarchaeological /geochemical analyses.” Explorers Club International.
1998-1999 \$1,200	Principal Investigator. Funded field collections in Peru. Center for Latin American and Caribbean Studies.
1997-1999 \$5,500	Principal Investigator. Funded field collections in Peru and conference presentations. UGA Geology Department Wheeler-Watts fund.
1996-1997 \$2,000	Principal Investigator. Funded field collections in Peru. UGA Geology Department Allard and Levy Awards.
1994-1996 \$2,500	Principal Investigator. Funded field collections on St. Catherine’s Island, GA American Museum of Natural History.

## **MANUSCRIPTS AND GRANT PROPOSALS REVIEWED**

### National Science Foundation

- Antarctic Organisms and Ecosystems (1)
- Archaeology (5)
- Biological Oceanography (1)
- Comparative Analysis of Marine Ecosystem Organization (1)
- Earth Sciences Instrumentation and Facilities (1)
- Earth System History Program (1)
- Geology and Paleontology Program (1)
- Ocean Sciences (2)
- Paleo Perspectives on Climate Change (P2C2) program (7)
- P2C2 review panelist (1)
- National Oceanic and Atmospheric Administration (1)
- National Geographic Society (4)
- The Research Council of Norway (1)
- United States Civilian Research and Development Foundation (1)
- Deutsche Forschungsgemeinschaft (German Research Foundation) (5)
- Hrvatska zaklada za znanost (Croatian Science Foundation) (1)
- Texas Sea Grant (1)
- American Journal of Science* (1)
- Archaeofauna* (1)
- Environmental Biology of Fishes* (2)
- Geoarchaeology* (1)
- Geo Marine Letters* (1)
- Geochimica et Cosmochimica Acta* (1)
- Global and Planetary Change* (1)
- Gulf and Caribbean Research* (1)
- Holocene* (1)
- International Journal of Earth Sciences* (1)
- International Council of Archaeozoology* (1)

*Journal of Archaeological Method and Theory* (1)  
*Journal of Archaeological Science* (8)  
*Journal of Archaeological Science Reports* (2)  
*Journal of Geology* (1)  
*Journal of Island and Coastal Archaeology* (1)  
*Journal of Quaternary Science* (1)  
*Limnology and Oceanography* (2)  
*Nature Communications* (2)  
*Palaios* (1)  
*Paleoceanography* (2)  
*Paleogeography, Paleoclimatology, Paleoecology* (7)  
*Proceedings of the National Academy of Sciences* (2)  
*Proceedings of the Royal Society B: Biological Sciences* (1)  
*PLOS ONE* (1)  
*Quaternary International* (2)  
*Radiocarbon* (1)  
*Scientific Reports* (1)  
*Southeastern Archaeology* (1)  
*Southeastern Naturalist* (1)

#### **SERVICE ACTIVITIES (PARTIAL LIST)**

2020-present Director of the Evolutionary Studies minor  
 2020-present Chair of the Geological Sciences Diversity Alliance  
 2020-present Faculty advisor to Alabama Evolutionary Studies Club and the Sailing Club  
 2018-present External tenure and promotion reviewer for 4 universities  
 2015-present State of Alabama Articulation and General Studies Committee, Geology and Earth Science Committee  
 2015-present UA representative to Association of Public and Land-grant Universities' Board on Oceans, Atmosphere, and Climate  
 2005-present Member of UA Evolution Working Group and ALLELE speaker series organizer  
 2004-present Co-director of the University of Alabama Stable Isotope Laboratory  
 2004-present Served or chaired on an average of 4 departmental committees per year.  
 2012-2020 UA Dept. of Geological Sciences Academic Assessment Director  
 2015-2018 Advisory Committee for the Water Policy Summit  
 2017-2018 Guest editor for special issue of *Chemical Geology*  
 2017-2018 Alabama Science Olympiad Event Chair  
 2017 Co-chair and organizer for American Geophysical Union annual meeting session  
 2017 Discussant for special session at the Society for American Archaeology annual meeting in Vancouver, CA  
 2016 Panelist and moderator for Women in STEM Experience (WISE) Conference Professional Roundtable  
 2015-2016 4<sup>th</sup> International Sclerochronology Conference Planning Committee  
 2015 National Science Foundation P2C2 proposal review panelist  
 2013-2014 Co-chair and organize for 2014 International Goldschmidt Conference session "Trace Element and Isotope Geochemistry in Molluscs: Sclerochronology of Ancient and Modern Environmental Processes"

2012-2013 Co-Chair for College Committee on Active Learning  
 2012 Co-chair and organizer for GSA session “New Developments and Applications in Sclerochronology”  
 2010-2012 UA College of Arts and Sciences College Academy to Improve Student Success  
 2009-2012 Alabama Science Olympiad Event Chair  
 2009-2012 UA College of Arts and Sciences Curriculum Committee member  
 2008-2013 UA Dept. of Geological Sciences Undergraduate Program Committee Chair  
 2008 Co-chair and organizer for 2008 Geological Society of America special session “Geoarchaeological Records of Climate and Environmental Change”  
 2007 *Storm World* panel discussant with author Chris Mooney, New College, UA  
 2003 Panel discussant, Southeastern Archaeological Conference “Getting involved: specializations and subdisciplines in archaeology”

### INVITED LECTURES

August 18, 2021 DAAD RISE Meeting (keynote), Mainz, Germany  
 October 30, 2020 University of Memphis, Dept. of Earth Science, Memphis, TN (via internet)  
 September 13, 2018 Alabama Mineral Institute, Bryan Conference Center, Tuscaloosa, AL  
 May 24, 2018 Alabama Board of Licensure for Professional Geologists  
 7th Continuing Education Conference, Pelham, AL  
 February 5, 2018 Birmingham Paleontological Society, Hoover, AL  
 September 14, 2017 Dauphin Island Sea Laboratory, Dauphin Island, AL  
 August 13, 2017 Museum of the Aleutians, Dutch Harbor, Alaska  
 June 19, 2017 Hefei University of Technology, Hefei, China  
 June 14, 2017 Nanjing Institute of Geology Paleontology, Chinese Academy of Sciences  
 June 13, 2017 Hohai University, Nanjing, China  
 March 7, 2017 Oscher Lifelong Learning Institute, Tuscaloosa, AL  
 April 7, 2016 Society of American Archaeology, Orlando, FL  
 February 20, 2014 University of Kentucky, Department of Earth and Environmental Sciences  
 October 16, 2013 Geocycles Workshop (keynote), Guttentburg University, Mainz, Germany  
 May 21, 2013 3<sup>rd</sup> International Sclerochronology Conference (keynote) Caernarfon, Wales  
 March 21, 2013 Universidad Nacional Mayor de San Marcos, Lima, Peru  
 December 4, 2012 Birmingham Paleontological Society, Hoover Public Library, Hoover, AL  
 November 15, 2012 Mallet Assembly, Tuscaloosa, AL  
 September 20, 2012 University of Georgia, Department of Geology, Athens, GA  
 June 6, 2012 Oscher Lifelong Learning Institute, Tuscaloosa, AL  
 April 8, 2011 Louisiana State University, Baton Rouge, LA  
 April 6, 2011 College Academy to Improve Student Success, UA, Tuscaloosa, AL  
 January 11, 2011 Oscher Lifelong Learning Institute, Tuscaloosa, AL  
 November 15, 2010 Blount Undergraduate Initiative, Tuscaloosa, AL  
 October 6, 2010 NASA Marshall Space Flight Center, Huntsville, AL  
 October 4, 2010 Alabama Paleontological Society, Birmingham, AL  
 July 27, 2010 2<sup>nd</sup> Int. Sclerochronology Conference (keynote), Gutenberg Univ. Germany  
 March 6, 2010 University of Alabama Arts and Science Leadership Board, Tuscaloosa, AL  
 March 3, 2010 University of Montevallo, Montevallo, AL  
 June 1, 2009 Birmingham Paleontological Society, Birmingham, AL  
 March 19, 2009 University of Georgia, Department of Geology, Athens, GA  
 October 27, 2008 Mississippi State Univ., Dept. of Sociology, Anthropology and Social Work

March 20, 2008	Society for Mining, Metallurgy, and Exploration, Bessemer, AL
March 13, 2008	University of Alabama, Geography Department, Tuscaloosa, AL
March 6, 2008	Dauphin Island Sea Laboratory, Dauphin Island, AL
November 8, 2007	University of Alabama, Alabama Perspectives on Sustainability and Climate Change. Panel discussion of Chris Mooney's <i>Storm World</i> , Tuscaloosa, AL
October 25, 2007	Willamette University, Archaeological Institute of America, Willamette, OR
July 11, 2007	Past Global Changes (PAGES) Workshop, McMaster University, Ontario
April 13, 2007	University of Arizona, IGERT lecture, Tucson, AZ
March 19, 2007	University of Maine, Climate Change Institute, Orono, ME
March 3, 2007	Univ. of West Florida, Depts. of Environmental Studies and Anthropology
March 24, 2004	University of Alabama, Department of Geological Sciences, Tuscaloosa, AL
March 3, 2004	University of South Carolina, Department of Anthropology, Columbia, SC
November 13, 2003	Southeastern Archaeology Conference, Charlotte, NC
October 10, 2003	University of South Carolina, Marine Science Program, Columbia, SC
February 13-14, 2003	University of Iowa, Department of Geosciences, Iowa City, IA
October 16, 2002	Robust Redhorse Conservation Committee, Edgefield, SC
February 7, 2002	University of Kentucky, Department of Geosciences, Lexington, KY
February 25, 2000	University of South Carolina, Department of Geology, Columbia, SC
November 12, 1998	Center for Latin American and Caribbean Studies, Athens, GA

#### **HONORS AND AWARDS**

2021	Keynote speaker at the DAAD RISE Scholars meeting, Heidelberg, Germany
2021	German Academic Exchange Network (DAAD) Scholarship for University Academics and Scientists
2021	U. of Alabama Arts and Sciences Outstanding Commitment to Students Award
2013	Keynote speaker to the Geocycles Workshop, Mainz, Germany
2013	Keynote speaker to the 3 <sup>rd</sup> International Sclerochronology Conference
2009-2012	University of Alabama Leadership Board Faculty Fellow
2009	Keynote speaker to the 2 <sup>nd</sup> International Sclerochronology Conference
2007	Inducted to Sigma Xi
1999 & 2000	Nominated for Excellence in Teaching Award, UGA
1999	American Geophysical Union Student Travel Award
1998-1999	Outstanding Graduate Teaching Award, UGA
1998-1999	Teaching Assistant of the Year, Department of Geology, UGA
1998	Geological Society of America Student Travel Award
1997	Gilles Allard Award for Field Geology, Department of Geology, UGA
1996	Sigma Gamma Epsilon National Honor Society in the Earth Sciences
1995-1996	Eugene Levy Marine Geology Award, Department of Geology, UGA

#### **COURSES TAUGHT**

The Dynamic Earth (Introduction to Geology)	Advanced Topics in Paleoclimatology
The Earth through Time (Historical Geology)	Paleoclimate Seminar
Paleoclimatology	Quaternary Climate and Environments
Climate Change	Evolution for Everyone
Sclerochronology	Stable Isotope Analysis
Communicating Geology	Evolution for Everyone

## Late Quaternary Sea-level Curves: Proxies, Dating and Discrepancies

### PROFESSIONAL AFFILIATIONS

American Geophysical Union  
Geological Society of America  
Society for American Archaeology

### STUDENTS/POSTDOCTORAL SCIENTISTS ADVISED

Christine Bassett	M.S. 2016, Ph.D 2016-present
Heather Black	McNair Scholar 2011, M.S. 2014
Robin M. Cobb	McNair Scholar 2009, M.S. 2014
Miguel F. Etayo-Cadavid	M.S. 2009, Ph.D. 2010
Oindrila Das	Post-doc 6/2013 - 12/2014
Gözde Degirman	M.S.2020 - present
Jamekia Durrough-Pritchard	M.S. 2018 - present
Jestina A. Hansen	M.S. 2011
Christie A. Jones	M.S. 2010
Kathleen Kingry	M.S. 2016
Sarah Olmstead	M.S. 2021 - present
Taylor Payne	M.S. 2016
Bailey Sanders	McNair Scholar 2010
Hillary Sletten	Ph.D. 2016
Jeixin Wei	M.S. 2014

Served as graduate committee member to 43 students at UA in Geological Sciences, Biological Sciences (3), Anthropology (6), and Music (3), and external member at the University of Georgia (3), University of South Alabama (1), Louisiana State University (2) McMaster University (1), and the University of Leiden (1)