



SOUTH CAROLINA UNIVERSITIES  
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Dr. Pirkle has been the Principal Investigator on over \$5M in contracts for the Departments of Energy and Homeland Security. This includes programs designed to encourage undergraduate students to pursue graduate studies and careers in the STEM disciplines by providing on-site research opportunities at various national laboratories and programs designed to support university faculty members at the start of their careers by providing collaboration opportunities at national laboratories.

Dr. Pirkle has held many professorial and administrative appointments at the University of South Carolina Aiken (USCA) including Chair of the Division of Natural Sciences and Dean of the College of Sciences. He was instrumental in establishing the Ruth Patrick Science Education Center at USCA, serving as Project Director for a \$500K National Science Foundation grant to establish the Center. The Center now serves more than 80,000 patrons per year.

Dr. Pirkle has published regularly in the professional literature primarily not only on the origin of heavy mineral sand deposits, but also on contaminant transport in the subsurface. He has authored several technical reports for the Department of Energy that deal with site characterization and subsurface contaminant transport. Journals in which he has published include *Economic Geology*, *Journal of Geology*, *Eos*, *Water Resources Research*, and *Mining Engineering*.

Dr. Pirkle holds a B.S. degree in Earth Sciences from Emory University, and M.S. and Ph.D. degrees in Earth Sciences from the University of North Carolina Chapel Hill.

### **Selected Peer-reviewed Publications**

*Traces and ichnology of recent and ancient sea turtle nests, St. Catherines Island, Georgia, and Cretaceous Fox Hills Sandstone, Elbert County, Colorado, in Bishop, G. A., Rollins, H. B., and Thomas, D. H., eds., Ge archaeology of St. Catherines Island and the Georgia Bight, Anthropological Papers of the American Museum of Natural History. In press. (With 3 other authors).*

*Traces of recent and ancient sea turtle nesting, Geol. Soc. America, Abstracts with Programs, v. 41, no. 1, p. 7. 2009. (With 2 other authors).*

*Heavy-mineral sands of the Atlantic and Gulf coastal plains, USA in Mange, Maria A. and Wright, David T., editors, Heavy Minerals in Use, Developments in Sedimentology, v. 58: Elsevier, Amsterdam, p. 1145-1232. 2007. (With 2 other authors).*

*Introduction to heavy-mineral sand deposits of the Florida and Georgia Atlantic coastal plain, in Rich, Fredrick J., editor, Guide to Fieldtrips – 56th Annual Meeting, Southeastern Section, Geological Society of America, Savannah, GA, Department of Geology and Geography Contribution Series #1: Georgia Southern University, Statesboro, GA, p. 129-135. 2007. (With 1 other author).*

*The geology, stratigraphy, and paleontology of Reids, Bells, and Roses Bluffs in northeastern Florida*, in Rich, Fredrick J., editor, Guide to Fieldtrips – 56th Annual Meeting, Southeastern Section, Geological Society of America, Savannah, GA, Department of Geology and Geography Contribution Series #1: Georgia Southern University, Statesboro, GA, p. 137-151. 2007. (With 5 other authors).

*Heavy-mineral deposits of Bailey, North Carolina*, Geol. Soc. America, Abstracts with Programs, v. 39, no. 2, p. 77. 2007. (With 3 other authors). Chromite from deposits in Southeastern Oregon as a foundry sand, in Reid, Jeffrey C., editor, Proceedings of the 42nd Forum on the Geology of Industrial Minerals: Information Circular 34, North Carolina Geological Survey, p. 395-411. 2006. (With 4 other authors).

*Heavy mineral mining in the Atlantic coastal plain of Florida and Georgia and the chemical and physical characteristics of the deposits* in Akser, M., and Elder, J., eds., 2005 Heavy Minerals Conference Proceedings, Society for Mining, Metallurgy, and Exploration, Littleton, CO., p. 7-18. 2005. (With 3 other authors).

*Organic dye effects on dense nonaqueous phase liquids (DNAPL) entry pressure in water saturated porous media*, Water Resources Research, 39 (8), 1207, doi:10.1029/2001WR001000, p. SBH5-1 – SBH5-13. 2003. (With 2 other authors).

*DNAPL penetration of saturated porous media under conditions of time-dependent surface chemistry* in Wyatt, D. E., and Harris, M. D., eds., Carolina Geological Society 2000 Field Trip Guidebook, Savannah River Site, p. K-1 – K-16. 2000. (With 2 other authors).