

**NAME** Larry “Boot” Pierce

**TITLE** Senior Environmental Geologist

**EXPERIENCE SUMMARY**

- Retired after 30 years with the Missouri Geological Survey, Missouri Department of Natural Resources
- Former Chief of Geologic Resources Section and Environmental Assistance Unit
- Geological and hydrological site investigations on solid, liquid, and hazardous waste facilities
- Monitoring plan development for liquid, solid and hazardous waste facilities
- Investigation of groundwater migration in karst and fractured rock environments
- Oversight of drilling and sampling operations related to groundwater and gas migration
- Oversight of permitting and enforcement activities related to oil and gas resources in Missouri
- Oversight of EPA Underground Injection Control Program in Missouri
- Assessment of the availability, quantity and quality of strategically-critical minerals, strategically-critical rare earth elements, industrial minerals, and energy resources
- Bedrock Mapping

**GEOLOGIST REGISTRATIONS** Missouri – RG# 0179

**EDUCATION** M.S. Resource Planning with Geological Emphasis, Missouri State University, 1992

B.S. Geology, Southeast Missouri State University

**PUBLICATIONS** Nelson, P.W., Vaughn, A.J., and Pierce L.D., (2021), **Comprehensive distribution and characterization of Missouri’s glade-producing rock formations**. Missouri Department of Natural Resources, Missouri Geological Survey, Special Report Number 14, p178, 132 fig., 5 app.

Pierce, Larry D. Jr., 2019, **Geologic Natural Features Classification System for Missouri**: Missouri Department of Natural Resources, Missouri Geological Survey, Open File Report Number OFR-2019-112-GS, 53 p., 14 figs., 4 app.

Pierce, Larry D. Jr., and Hoglan Shi, 2015, **Evaluation of veterinary pharmaceuticals and Iodine for use as a groundwater tracer in hydrologic investigations of contamination related to dairy cattle operations**, Proceedings of 2015 National Sinkhole Conference in Rochester, Minnesota,

Pierce, Larry D. Jr., RG, Sherri A. Stoner, R.G., and Cecil E. Boswell, 2013, **Laboratory and Field Testing of a Remotely Deployed, Multi-Sensor Fluorometer for Groundwater Tracing in an Ozark Environment**, Proceedings of 12th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst, Carbonates and Evaporates, Springer, 10.1007/s13146-013-0132-y,

Stoner, Sherri A., Larry D. Pierce Jr., and Cecil E. Boswell, 2013, **Groundwater Dye Tracing in Central Missouri Utilizing a Multi-Sensor Fluorometer Deployed in Hahatonka Spring**, Proceedings of 12th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst, Carbonates and Evaporates, Springer.

Pierce, Larry D. Jr., and Cecil E. Boswell, 2009, **Testing and Case Study of Turner C6 Multi-sensor Spectrofluorometer for Groundwater Tracing**, Proceedings of National Groundwater Associations - 54th Annual Midwest Conference on Groundwater and Karst, Presentation and poster display.

Pierce, Larry D., 2003, **Bedrock geologic map of the Rocky Mount 7.5 minute quadrangle Miller and Morgan counties**, Missouri's, Missouri Department of Natural Resources, OFM-03-0461.

Pierce, Larry D., 2003, **Surficial materials map of the Rocky Mount 7.5 minute quadrangle Miller and Morgan counties**, Missouri's, Missouri Department of Natural Resources, OFM-03-0462.

Pierce, Larry D. Jr., 2002, **Susceptibility of Groundwater in Karst Environments – Influences of Environmental Protection**, Missouri Environmental Educators Association, Annual Conference, Poster Session.