

## Clay Mineralogy Dissertations and Theses

### **Doctor of Philosophy**

Al-Sanabani, Gaber, (1991), Palynostratigraphic Age and Origin of the Kaolin Deposits in Inner Coastal Plains in East-Central Georgia (Hurst)

Austin, Jason (2012) Assessing the viability of pedogenic gibbsite as a proxy for paleo-pCO<sub>2</sub>. (Schroeder)

Austin, Roger S., (1972), The Origin of The Kaolin and Bauxite Deposits of Twiggs, Wilkinson, And Washington Counties, Georgia (Hurst)

Barker, William W., (1988) An Electron Microscopic Study of Extra lamellar Organoclay Complexes (Hurst)

Bulger, Daniel (2013) The geochemical mineralogic expression of sequence boundaries Mississippian carbonates of the Appalachian Basin, Georgia, and Tennessee. ( Schroeder)

Cary, Liz (2012) Filtration of perchlorate from water using hexadecyltrimethylammonium (HDTMA)-modified montmorillonite. ( Nzengung)

Dooley, Debra F. P., (1995), Phase Equilibrium Studies of Al-Ti-Mg Mixing Properties in Biotite and the effects of Ti and F on Phlogopite Stability. (Patino-Douce)

Fackrell, Laura (2021) Applications of critical science in the exploration of Mars (Schroeder)

Melear, N.D., (1998) Crystal properties of goethite and hematite from three weathering profiles of the Georgia Piedmont (Schroeder)

Rogers, Lewis F., (1979), The Petrography-Mineralogy of Six Georgia Kaolins (Hurst)

### **Master's of Science**

Adeyemi, Oluwaseun. (2023) Mineralogy of per- and polyfluoroalkyl substances (PFAS) contaminated soils from agricultural fields in Society Hill, South Carolina. (Schroeder)

Andrews, Lynn M., (1995), Bedding-plane and Tectonic Stylolites in Appalachian Carbonates: A Field and Laboratory Study (Railsback)

Aronson, Holden (2023) Determining if and how land use disturbance effects long-term soil erosion rates in the Broad Basin of the southern Appalachian Piedmont, using in situ-produced <sup>10</sup>Be cosmogenic nuclide isotopes in fluvial quartz grains. (Schroeder)

Boreman, Joseph (2013) A stable sulfur isotope study of Georgia kaolin and implications for bacterial sulfate reduction. (Crowe)

Castillo, Reyna M., (1997), Enhanced Anaerobic Degradation of Tetrachloroethylene by Redox-Manipulated Iron-Bearing Clays (Nzengung)

Cook, Robert B., (1968), The Geology of a part of West Central Wilkes County, Georgia (Hurst)

Cox, Julie E., (1997), The Paleoenvironmental and Paleoclimatic Significance of Carbon and Oxygen Isotopes of Calcrete and Related Rocks of the Catskill Delta (Railsback)

Eager, William G., (1997), Geology and Stable Isotope Geochemistry of the Ridgeway North Pit Au- Ag Deposit, Ridgeway, South Carolina (Crowe)

Fackrell, Laura(2015) Understanding thermophilic ammonia-oxidizing Archaea environments across extreme redox gradients. ( Schroeder)

Jones, Tracy, (1988)), Smectitic Impurities in some Commercial Georgia Kaolins (Hurst)

Jordan, Barrett (2020) Geology of the Calhoun Critical Zone Observatory (Schroeder)

Kim, Jae Gon, (1994), FTIR, XRD, SEM and Chemical Study of Biotite Weathering from the Sparta, Granite, Georgia (Schroeder)

Kremer, Thomas, (1983), SEM And XRD Investigation of Mineralogical Transformations During Weathering (Hurst)

Kyle, Jennifer (2005) Mineral-microbe interactions and biomineralization of siliceous sinters and underlying rock from Jenn's Pools in the Uzon Caldera, Kamchatka, Russia (Schroeder)

LeGolvan, John J. (2001) The fate of magnetite and ilmenite in weathering profile. ( Schroeder)

Lowe, Robert A., (1991), Search for Ostwald Ripening in Georgia's Kaolins (Hurst)

Malcom, Otis Chip, (1991), The Illite in The Commercial Kaolins of The Middle Georgia Kaolin District (Hurst)

McLain, Angela A., (1997), Fixed Nitrogen in Clay Minerals of an Offshore Texas, Brazos Block Well (Schroeder)

Melear, Nathan D., (1990), Clay Minerals and Ferruginous Minerals Formed During Weathering of Granitic Rocks of The Georgia Piedmont (Hurst)

Moskow, Michael G., (1988), Flint Kaolins in The Georgia Coastal Plain (Hurst)

Needham, Robert E., (1972), The Geology of The Murray County, Georgia Talc District (Hurst)

Oates, Mary T., (1997), Sorption of Halogenated Aromatic Chemicals by Single-And Dual-Cation Organo-Modified Montmorillonites (Nzengung)

Ostrowicki, Katrina (2012) A petrographic, mineralogical, and petrophysical analysis of carbonate core in the Floridan aquifer system: Cockspur Island, Georgia, USA. (Schroeder)

Poe, David M., (1986), The Separation of Montmorillonite from Florida Phosphate Slimes (Hurst)

Pollett, Buford B., (1995), Application of the Rietveld Method for the Determination of Mineral Abundances in East Central Georgia Kaolin Deposits (Schroeder)

Renner, James F., (1989), Clay Mineralogy of the Rockmart Slate (Hurst)

Shiflet, Jason E. (1999) Characterization of titanium bearing phases in an east Georgia kaolin. (Schroeder)

Steiner, Peter (2021) Nutrient cycling of potassium in the critical zone over periods of changing land use M.S. (Schroeder)

Wilford, Joanna (2015) Characterizing the weathering of masonry sandstone. (Swanson)

---