CFAES

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES

GRADUATE EXIT SEMINAR

THOMAS DOOHAN

Drivers of Soil Organic Matter Stabilization in Ohio Soils

The general principles involved in the stabilization of soil organic matter (SOM) by clay minerals and iron and aluminum oxides have been postulated for some time, but less well known is how specific stabilization mechanisms vary across contrasting horizons, soils, and mineralogies. Studies delving into the topic have resulted in conflicting results, with some research concluding SOM stabilization varies with differing soil minerals and clay content while others finding no effect. This study focuses on understanding of soil organic matter and how its implied stability varies across Ohio with regards to physical, chemical and mineralogical properties. Results of this study will be useful for understanding how SOM stability across the landscape, for assessing a soil's overall ability to stabile SOM and for improving soil sequestration efforts.

Advisor: Dr. M. Scott Demyan

THURSDAY, AUGUST 6, 2020
1:30 P.M.

Join the seminar via Zoom:
https://osu.zoom.us/j/95742260789?pwd=WGwzbWdYcmt5OHhLV1l2dnBCL1gyZz09