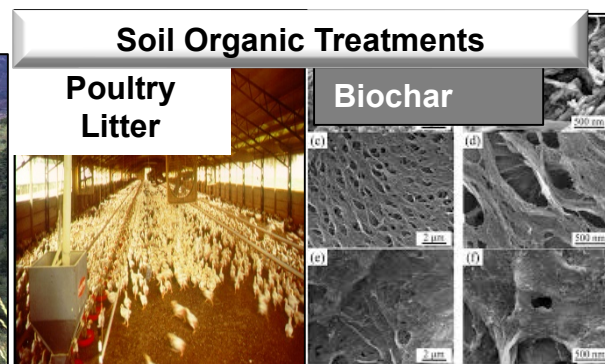
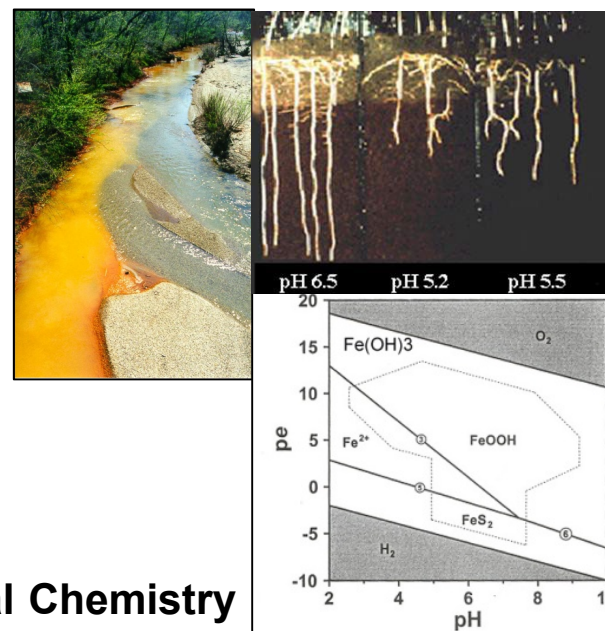


Environmental Soil Chemistry and Remediation
Environment and Natural Resources, ENR 5262
Autumn Semester 2020, 3 semester hr
Lecture W, F 9:10-10:05; Lab F 10:20-12:20

Looking for a Hands-on Experiential Class to Remediate our Soil and Water Environment ?
Offered 100% via Zoom or in person (if possible)



A comprehensive study of soil biogeochemical processes relevant to soil and chemical contaminant remediation. Emphasis is placed on soil and environmental chemical processes on human and ecological health, ecosystem function, and soil “gentle” green remediation. Water and soil solution chemistry; soil carbon/organic matter, soil minerals, precipitation/dissolution, adsorption reactions and models, redox chemistry, soil acidity. remediation of degraded soils from coal mining, salt, heavy metals, toxic organics. Restoration of urban soils. Socioeconomic considerations for environmental remediation. Laboratory component focuses on remediation using advanced spectroscopic data and hands-on experience using geochemical computer models (e.g., USEPA and USGS).



Professor of Soil Environmental Chemistry
School of Environment and Natural Resources

basta.4@osu.edu; or visit <http://senr.osu.edu/about-us/courses/enr-5262>