



ses

school of environmental sciences

The Research Seminar Presentation by

Komathy Prapagar

will be held on

Tuesday March 27, 2018

At 2:30 pm

ALEXANDER HALL 265

Title: Quantifying the variability and dynamics of soil hydromorphism in riparian buffer systems.

Abstract

Soil hydromorphism is frequently characterized by the nature and distribution of iron oxides within the soil profile. Hydromorphism is generally assessed visually and, has been used to identify soil drainage classes. The magnetic susceptibility of soil is strongly influenced by the nature of iron oxides in the soil. The aim of this study is to explore the use of electromagnetic induction techniques, combined with detailed soil analysis, to quantify hydromorphism in riparian buffer systems. Infield measurements of magnetic susceptibility will be evaluated using two electromagnetic devices, EM-38 and EM-31RT to characterize iron oxides from different riparian buffer systems. This study will contribute to our understanding of electromagnetic induction techniques to quantify soil hydromorphism.

Everyone is welcome to attend

(This is a Research Proposal presentation by students in ENVS*6900)