



ses

school of environmental sciences

The Research Seminar Presentation by

Sowthini Vijayakumar

will be held on

Tuesday March 27th, 2018

At 2:00 pm

ALEXANDER HALL 265

**Carbon sequestration by riparian buffer systems as influenced by
soil texture, vegetation type and age**

Abstract

Climate change mitigation refers to efforts that reduce greenhouse gas (GHG) concentrations in the atmosphere by reducing GHG emissions, protecting natural carbon (C) sinks or developing new C sinks through vegetation management. In this context, riparian buffers (RBS); a form of agroforestry where strips of perennial vegetation, including grasses, shrubs, and trees, are planted between croplands or pastures and streams, have a potential role to play in climate change mitigation through C sequestration in biomass and soil. However, the effect of the perennial component, their age class and type and soil texture on above ground and below ground C sequestration by RBS is not well understood. This project will address this research gap and create the data set on C sequestration potential of RBS with respect to considered factors (soil texture, vegetation type and age). This project therefore will provide the needed information to plant RBS along the degraded agricultural streams and thereby optimize C sequestration in order to bring about landscape level impact.

Everyone is welcome to attend

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