



Presenter

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***The Role of Runoff and Erosion on Soil Carbon
Stocks: From Soilscales to Landscapes***

Thursday, August 27, 2015, 1:00 – 2:00 PM Central Time

Here is a webinar for both the soil scientist who examines those localized processes driving ecosystem processes and carbon dynamics in the soil column, as well as those exploring the soil carbon redistribution process happening along a hillslope or in the watershed. You'll come away with a better understanding of the dynamicity in different ecosystem processes at different scales and the interactions between these processes. Also, approaches for coupling top down and bottom up methods for SOC and total below carbon allocations predictions will be discussed. ***Please invite staff and partners who you think might be interested in this topic. Please include your NCSS cooperators.***

Changes of land management in agricultural landscapes can lead to a high degree of spatial heterogeneity and temporal variability in ecosystem properties like Soil Organic Carbon (SOC) redistribution and storage. Moreover, the degree that these changes influence SOC may vary depending on hillslope location and hydrologic events. Most available biogeochemical models, though, are unable to capture this variability, being soil profile models or "point models in space". To understand these drastic changes of ecosystem properties found in agricultural lands and the effects of different gradients on SOM decomposition, a three pronged approach is needed that incorporates strategic sampling plans following the main flow paths in a field, novel remote sensing techniques to replicate landscape heterogeneity, and landscape evolution models that incorporate the effects of tillage on SOM redistribution in agricultural lands. While the emphasis during the seminar is on hillslope processes the presenter will discuss remote sensing techniques and in-situ monitoring approaches for large scale SOC predictions.

***On Thursday, 8/27/2015, Click this link to join the webinar using
Adobe Connect***

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This webinar will be recorded and made available online at the NSSC YouTube Channel (<http://www.youtube.com/user/nrcsnssc>)

NSSC staff in Lincoln may join the webinar in Room 397A.

