

Monday, December 8, 2014

Purdue University

3:30 p.m. 2-425 Lilly

(3:15 pm for pre-visiting, coffee, refreshments)

Soil-landscape Modeling: From Hillslopes to Landscapes and Big Data Analysis Opportunities

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This talk will discuss soil-landscape modeling research that has contributed to our growing knowledge base for understanding the structure and function of soil landscapes and how these methods contribute to digital soil mapping approaches. Examples of work from the U.S. and Australia will be used to illustrate

concept development that integrates a broad range of tools including geomorphometry, remote sensing, GIS, field data collection and pedology theory. The talk will transition into discussion of how we can now begin to access and utilize interoperable digital data repositories and cyberinfrastructure to speed up the progression of science and the quantitative representation of soil landscapes as a critical component of research across a broad range of disciplines.