



69th SWCS International Annual Conference

# MAKING WAVES IN CONSERVATION

Our Life on Land & its Impact on Water  
LOMBARD, IL • JUL 27–30, 2014



In conjunction with the 2014 SWCS International Conference, a Water Erosion Prediction Project (WEPP) Model Application professional development workshop is being offered on Sunday, July 27, 2014 from 1:00 – 5:30 p.m. Early registration fee is \$65 through June 17, and the fee is \$85 after that. Limit of 20 reservations for the workshop.

**Workshop:** Water Erosion Prediction Project (WEPP) Model Application

**Date/Time:** Sunday, July 27, 2014 1:00 – 5:30 p.m. CDT

**Instructors:** Dennis Flanagan, Agricultural Engineer, and Jim Frankenberger, Information Technology Specialist, USDA - Agricultural Research Service

**SWCS Meeting Website:**

[http://www.swcs.org/en/conferences/2014\\_annual\\_conference/](http://www.swcs.org/en/conferences/2014_annual_conference/)

**Description:**

WEPP is a process-based soil erosion prediction technology, developed by the United States Department of Agriculture over the past 25 years. It simulates the physical processes affecting soil erosion by water, including infiltration, runoff, soil detachment by raindrops and flowing water, sediment transport, sediment deposition, soil tillage disturbance and consolidation, plant growth, and plant residue management and decomposition. The model is used both within and outside the U.S., especially by the USDA Forest Service and USDI Bureau of Land Management for determining the effects of human disturbances as well as wildfire on erosion potential and targeting of remediation efforts. Recently the USDA Natural Resources Conservation Service has begun a new project to implement WEPP within their agency using web-based interfaces and databases.

This workshop will provide participants with information, software, and hands-on training with WEPP. Model background, processes modeled, interfaces and databases available will be discussed. Attendees should bring their own laptop computer with them, in order to install and run the WEPP software and learn how to apply the model to hillslopes and small watersheds. Additionally, a wireless network adaptor on the laptop is strongly recommended as training with current WEPP internet-based interfaces will also be conducted.

**Contacts:**

For more info contact Dennis Flanagan ([Dennis.Flanagan@ars.usda.gov](mailto:Dennis.Flanagan@ars.usda.gov)) or Jim Frankenberger ([Jim.Frankenberger@ars.usda.gov](mailto:Jim.Frankenberger@ars.usda.gov)) .

## WEPP SWCS Workshop – Agenda - Sunday, July 27, 2014

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- 1:00 p.m. Welcome, introductions
  - 1:10 p.m. WEPP science, basics, definitions
  - 1:40 p.m. WEPP Windows Interface and databases, exercise
  - 2:40 p.m. Web-based WEPP interfaces - Hillslope profile applications
  - 3:00 p.m. Break
  - 3:15 p.m. WEPP Watershed basics, GIS methods for WEPP, GeoWEPP intro
  - 3:45 p.m. Web-based GIS watershed simulations, exercise
  - 4:45 p.m. Individual applications
  - 5:15 p.m. Discussion
  - 5:30 p.m. Complete class evaluation, adjourn
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WEPP Developers / Cooperators include:

