# The Geo-spatial interface for the Water Erosion Prediction Project (GeoWEPP). (S06-renschler030541-Oral)

#### Authors:

- C.S.Renschler University at Buffalo (SUNY), Buffalo, NY.
- D.C.Flanagan USDA-ARS-NSERL, West Lafayatte, IN
- B.A.Engel Purdue University, West Lafayette, IN
- J.R.Frankenberger USDA-ARS-NSERL, West Lafayette, IN

## Abstract:

Decision-makers operating at different scales of interest and responsibility have to assess the distribution, extent, and severity of soil erosion and sedimentation. To seek solutions in handling natural and human actions related to this type of non-point source pollution, the linkage of distributed assessment models and Geographical Information Systems (GIS) at various spatial and temporal scales is in high demand. The Water Erosion Prediction Project (WEPP) model is a continuous simulation, process-based model that allows simulation of water and sediment balance in small watersheds and on hillslope profiles within those watersheds. The Geo-spatial interface for WEPP (GeoWEPP) utilizes readily available digital geo-referenced information from publicly accessible Internet sources such as the U.S. Geological Survey digital elevation models, topographical maps, and land use data as well as Natural Resources Conservation Service soils maps. Based on statistical parameter sets from more than 2600 U.S. climate stations, GeoWEPP enables even non-GIS-and-modeling users to derive and prepare valid model input parameters to assess representative conditions in an area of interest. For more details on GeoWEPP:

http://www.geog.buffalo.edu/~rensch/geowepp

### **Corresponding Author Information:**

Chris Renschler University at Buffalo (SUNY) 166 Wilkeson Quad Buffalo, NY 14261 phone: (716) 645-2722 ext 23 fax: (716) 645-2329 e-mail: rensch@buffalo.edu

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