



## AAG Annual Meeting

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### Paper Session:

#### 1530 Advances and Challenges in Digital Elevation Models IV (Geomorphology)

is scheduled on Tuesday, 4/8/2014, from 2:40 PM - 4:20 PM in Room 30A, TCC, Fourth Floor

#### Sponsorship(s):

Coastal and Marine Specialty Group  
 Geomorphology Specialty Group  
 Spatial Analysis and Modeling Specialty Group

#### Organizer(s):

[Barry Eakins](#) - University of Colorado  
[Jeffrey J. Danielson](#) - United States Geological Survey

#### Chair(s):

[John Brock](#) - USGS

#### Abstract(s):

**2:40 PM Author(s):** \*Sandra K. Poppenga - USGS  
 Bruce B Worstell - SGT, Inc.  
 Gayla A Evans - USGS  
 Jeffrey J. Danielson - USGS  
 John C. Brock - USGS  
 H. Karl Heidemann - USGS

Abstract Title: *Hydrologic-Enforcement of Lidar DEMs in Select Reaches of the Delaware River Basin*

**3:00 PM Author(s):** \*Monica Palaseanu-Lovejoy - U.S. Geological Survey  
 Patrick Barnard - U.S. Geological Survey

Abstract Title: *Defining Seacliffs Limits and Change Analysis Using Lidar-derived High-Resolution DEMs in Del Mar, California*

**3:20 PM Author(s):** \*Jessica D DeWitt, MA - West Virginia University  
 Pete Chirico - USGS

Abstract Title: *Moving towards regional-scale topographic change: creating a single-date DEM of Appalachia from ASTER imagery*

**3:40 PM Author(s):** \*Peter George Chirico - United States Geological Survey

Abstract Title: *Implications of Stereo Geometry and Terrain on the Error in Photogrammetrically-Derived DEMs*

**4:00 PM Author(s):** \*Brooke Marston - Oregon State University

Abstract Title: *Automating the Local Adaptation of Illumination in Analytical Relief Shading*

**Session Description:** Digital elevation models (DEMs) are a fundamental base layer for many applications, such as hydrologic and storm surge modeling, tsunami and sea-level

rise modeling, ecosystems management and habitat research, coastal and marine spatial planning, sediment-transport analysis, and hazard mitigation and community preparedness. We invite papers/illustrated papers on recent advances in DEMs, including new techniques for building or evaluating DEMs, and in challenges that DEMs pose to applications that require them. How can DEMs be improved to support better planning or research? What are the limitations of DEMs in how they are used? How does DEM uncertainty or inaccuracy impact results derived from their use?

New Query