



## AAG Annual Meeting

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### Paper Session:

#### 3407 Advances and Challenges in Digital Elevation Models III (Geomorphology)

is scheduled on Thursday, 4/11/2013, from 12:40 PM - 2:20 PM in Palos Verdes, Westin, Lobby Level

#### 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):

**12:40 PM Introduction:** [Barry Eakins](#) - University of Colorado

**12:40 PM Author(s):** \*Jonathon Launspach - University of Northern Iowa, Geography

Abstract Title: *Automated Sinkhole Extraction and Morphological Analysis in Northeast Iowa Using High-Resolution LiDAR Data*

**1:00 PM Author(s):** \*Augustine Awwunudiogba, Ph.D. - California State University Stanislaus  
 Augustine Awwunudiogba, Ph.D. - Dept. Anthropology, Geography, & Ethnic Studies, California State University-Stanislaus

Abstract Title: *Flood Plain Delineation, Land Use, and Riparian Vegetation Mapping of the Lower Tuolumne using LiDAR DEM and Aerial Photos*

**1:20 PM Author(s):** \*Kathryn Reavis - East Carolina University  
 Thad A. Wasklewicz - East Carolina University  
 William Schulz - U.S. Geological Survey, Landslide Hazards Program  
 Jeffrey A. Coe - U.S. Geological Survey, Landslide Hazards Program

Abstract Title: *A New Terrestrial Laser Scanning Method for Assessing Landslide Motion*

**1:40 PM Author(s):** \*Fuyuan Liang - Western Illinois University

Abstract Title: *Discrimination of fenglin, fengcong and non-karst landforms in Guilin, Southern China: A GIS-based method for karst geomorphologic mapping*

**2:00 PM Author(s):** \*Boleslo E Romero - University of California, Santa Barbara

Abstract Title: *Comparison of Stream Channel Estimation*

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**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