



AAG Annual Meeting

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Illustrated Paper Session:

3623 Advances and Challenges in Digital Elevation Models V (Illustrated Paper)

is scheduled on Thursday, 4/11/2013, from 4:40 PM - 6:20 PM in San Jose, Westin, Level 2

Sponsorship(s):

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

Organizer(s):

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

Chair(s):

[John Brock](#) - USGS

Abstract(s):

4:40 PM Author(s): *Kristina Yamamoto - United States Geological Survey
 Samantha Arundel - United States Geological Survey
 Kimberley Mantey - United States Geological Survey
 Jeremiah Vinyard-Houx - United States Geological Survey

Abstract Title: *Evaluating Positional Accuracy in the National Hydrography Dataset for Alaska*

4:48 PM Author(s): *Shrinidhi Ambinakudige - Mississippi State University
 Kabindra Joshi - Mississippi State University

Abstract Title: *Remote Sensing of Cryosphere: Estimation of Mass Balance Change in Fedchenko Glacier, Tajikistan*

4:56 PM Author(s): *Cindy Thatcher - USGS Eastern Geographic Science Center
 Jeffrey J. Danielson - USGS EROS
 Samsung Lim - University of New South Wales, Sydney, NSW, Australia
 Monica Palaseanu-Lovejoy - USGS Eastern Geographic Science Center
 John C. Brock - USGS Coastal & Marine Geology Program
 Dustin Kimbrow - USGS Alabama Water Science Center

Abstract Title: *The Integration of Airborne and Terrestrial Lidar to Map Key Landscape Features*

5:04 PM Author(s): *Matthew Ryan Love - University of Colorado, Boulder
 Barry Eakins - University of Colorado, Boulder
 Emily Allen - University of Colorado, Boulder

Abstract Title: *Building lidar-based DEMs of the U.S. coasts of the Great Lakes*

5:12 PM Author(s): *David J Bailey - CSU, Fresno

Abstract Title: *Quantifying the John Muir Trail in the Southern Sierra Using GIS*

5:20 PM Author(s): *Brittany N Casey - US Geological Survey
 Peter George Chirico - US Geological Survey

Abstract Title: *Accuracy Assessment and Evaluation of Spatial-autocorrelation Error in DEMs Derived from ALOS PRISM Stereo-Imagery*

5:28 PM Author(s): *Nancy O'Hare - Center for Geospatial Research, Dept of Geography, University of Georgia
Thomas R. Jordan, PhD - Center for Geospatial Research, Dept of Geography, University of Georgia

Abstract Title: *LiDAR to detect and characterize small, seasonal ponds in forested areas*

5:36 PM Author(s): *Bryan Jared Gunter - University of Mississippi - Mississippi Mineral Resources Institute
Allison Inmann Woolsey - University of Mississippi-Mississippi Mineral Resources Institute
Greg Easson - University of Mississippi-Mississippi Mineral Resources Institute
Hal Robinson - University of Mississippi-Mississippi Mineral Resources Institute

Abstract Title: *Dynamic Digital Elevation Model for the northern Gulf Coast*

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?

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