

41st International Binghamton Geomorphology Symposium
Geospatial Technologies & Geomorphological Mapping
October 15 to 17, 2010 - University of South Carolina - Columbia, SC
Tentative Program Schedule (subject to revision)

Friday, October 15th

11:30-12:30 Registration

12:30-5:00 Field trip to Congaree National Park led by John Kupfer and Kimberly Meitzen

6:30-10:00 pm Icebreaker & Registration in Top of Carolina, Capstone Building (revolving restaurant with overview of Columbia)

Saturday, October 16

7:30-8:30 Continental Breakfast & Poster Setup

7:30-10:00 Registration and proceedings volume sales

8:30-10:00 Session I - INTRODUCTIONS

8:30 - 8:40 Welcome to Columbia - Will Graf, Interim Associate Dean for Research, College of Arts and Sciences, USC

8:40 - 9:10 Convocation: *Taking the Measure of a Landscape: Comparing a Simulated and Natural Landscape in the Virginia Coastal Plain* - [Alan D. Howard](#), University of Virginia.

9:10 - 9:40 Introduction: *Geospatial Technologies and Digital Geomorphological*

Mapping: Concepts, Issues, and Research - [Michael P. Bishop](#), University of Nebraska, Omaha; [Allan James](#), University South Carolina; [John F. Shroder](#), University of Nebraska, Omaha; [Stephen Walsh](#), University of North Carolina, Chapel Hill.

9:40 - 10:10 **Coffee Break & Poster Session I**

10:10-12:30 **Session II - REMOTE SENSING, *Methods and Technology***

10:10 - 10:40 *Mapping Surface Mineralogy Using Imaging Spectrometry* - [Fred A. Kruse](#), University of Nevada, Reno.

10:40 - 11:10 *Airborne and Terrestrial LiDAR Technology for Assessing Topography*, [Michael Hodgson](#) and [John R. Jensen](#), University South Carolina.

11:10 - 11:40 *Microwave Remote Sensing*, [Scott Hensley](#), Jet Propulsion Lab.

11:40 - 12:10 *Landform Characterization Using Geophysics - Recent Advances, Applications, and Emerging Tools* - [Remke L. Van Dam](#), Michigan State University.

12:10 - 12:30 Discussion

12:30-1:30 Lunch (BGS Steering Committee Meeting)

1:30-3:30 **Session III - REMOTE SENSING, *Applications***

1:30 - 2:00 **Making Riverscapes Real** - [Patrice Carbonneau](#), University of Durham; [Mark A. Fonstad](#), Texas State University, San Marcos; [W. Andrew Marcus](#), University of Oregon; [Stephen J. Dugdale](#), APEM Ltd., Riverview, Embankment Business Park, Heaton Mersey, United Kingdom.

2:00 - 2:30 *High-Resolution Mapping and Modeling of Floodplains* - [James Brasington](#), University of Aberystwyth, UK.

2:30 - 3:00 *Relationship between Satellite-Derived Snow Cover and Snowmelt-Runoff Timing and Stream Power in the Wind River Range, Wyoming* - [Dorothy K. Hall](#), NASA; [James L. Foster](#); [Nicolo E. DiGirolamo](#); [George A. Riggs](#)

3:00 - 3:30 **Coffee Break & Poster Session II**

3:30 - 5:00 **Session IV - GEOGRAPHIC INFORMATION SCIENCE**

3:30 - 4:00 *Geomorphometry and landform mapping: what is a landform?* - [Ian S. Evans](#), Durham University, UK.

4:00 - 4:30 *Digital Terrain Modeling* - [John Wilson](#), University of Southern California.

4:30 - 4:45 *Scientific Visualization of Landscape and Landforms* - [Helena Mitasova](#), North Carolina State University; [Russell S. Harmon](#), U.S. Army Research Laboratory, Durham, NC; [Katherine Weaver](#), North Carolina State University; [Nathan Lyons](#), North Carolina State University; [Margery F. Overton](#), North Carolina State University.

4:45 - 5:00 Discussion

7:00-9:00 pm **Banquet**

Synchronization and Scale in Geomorphic Systems - [Jonathan D. Phillips](#), University of Kentucky.

Sunday, October 16th

8:00-9:00 **Continental Breakfast & Poster Session III**

9:00-12:00 **Session V - GEOGRAPHIC INFORMATION SCIENCE**

9:00 - 9:30 *Spatial Analysis and Mapping in Coastal Geomorphology* - [Thomas R. Allen](#) and [Paul Gares](#); East Carolina University. [George Oertel](#); Old Dominion University.

9:30 - 10:00 *Soil Mapping and Modeling* - [Jon Pelletier](#), University of Arizona.

10:00 - 10:30 *GIS-based Hydrological Modeling and Mapping* - [Lawrence Band](#), University of North Carolina, Chapel Hill.

10:30 - 11:00 *The influence of mechanical properties on the link between tectonic and topographic evolution* - [Peter O. Koons](#), University of Maine

11:00 - 11:30 *Geomorphic Change Detection Using Historic Maps and DEMs: The Temporal Dimension of Geospatial Analysis* - L. [Allan James](#), [Michael Hodgson](#), [Subhajt Ghoshal](#), and [Mary Megison Latiolais](#), University of South Carolina.

11:30-12:00 - Discussion

12:00 Adjourn