

## **New Tools in Process-Based Analysis of Lidar Topographic Data**

University Corporation for Atmospheric Research (UCAR)

Boulder, Colorado, USA

June 1-2, 2010

Workshop website:

[http://www.opentopography.org/index.php/resources/short\\_courses/lidar2\\_2010/](http://www.opentopography.org/index.php/resources/short_courses/lidar2_2010/)

**Tuesday, June 1**

**9:30-12:00      Workshops 1**

### **1A. River Bathymetry Toolkit**

*Leaders:* Jim McKean and Dave Nagel (U.S. Forest Service, Rocky Mountain Research Station); and Philip Bailey and Frank Poulsen (ESSA Technologies Ltd.)

Bookhagen	McCoy
Caldwell	McElroy
Crosby, B.	Merritts
Donaldson	Perignon
Gellis	Shrestha
Haugerud	Shriver
Hughes	Snyder
Kochendorfer	Strouse
Legleiter	Wittkop
Madej	

### **1B. Filtering and quantitative analysis of lidar data**

*Leaders:* Steve Martel (University of Hawaii) and Taylor Perron (MIT)

Adams	Hurst
Arrowsmith	Johnson
Belmont	Lefsky
Carter	Limaye
Casas	Lohse
Crosby, C.	Madoff
Dietrich	Palucis
Doctor	Passalacqua
Finnegan	Pelletier
Frankel	Prietas
Frueh	Taylor
Gangodagamage	Wheaton
Gold	Wilcox
Harman	Youberg
Hilley	

**Tuesday, June 1**

**1:00-3:30 pm Workshops 2**

**2A. Extracting landscape metrics for tectonic interpretation**

*Leaders:* George Hilley (Stanford University) and Ramon Arrowsmith (ASU)

Caldwell	Limaye
Carter	Madoff
Dietrich	Martel
Doctor	McKean
Donaldson	Palucis
Frankel	Passalacqua
Frueh	Perron
Gangodagamage	Poulsen
Gold	Shrestha
Haugerud	Snyder
Hurst	Youberg

**2B. Meaningful change detection and sediment budgeting from repeat topographic data**

*Leader:* Joseph Wheaton (Utah State University)

Adams	Lohse
Bailey	Madej
Belmont	McCoy
Bookhagen	McElroy
Casas	Merritts
Crosby, B.	Nagel
Crosby, C.	Pelletier
Finnegan	Perignon
Gellis	Prietas
Harman	Shriver
Hughes	Strouse
Johnson	Taylor
Kochendorfer	Wilcox
Lefsky	Wittkop
Legleiter	

**Wednesday, June 2**

**9:30-12:00 Workshops 3**

**3A. River Bathymetry Toolkit**

*Leaders:* Jim McKean and Dave Nagel (U.S. Forest Service, Rocky Mountain Research Station); and Philip Bailey and Frank Poulsen (ESSA Technologies Ltd.)

Adams	Hilley
Arrowsmith	Hurst
Belmont	Lefsky
Carter	Limaye
Casas	Lohse
Dietrich	Martel
Doctor	Pelletier
Frueh	Wheaton
Gangodagamage	Wilcox
Gold	

**3B. GeoNet: A computational tool for channel extraction from lidar**

*Leader:* Paola Passalacqua (National Center for Earth-Surface Dynamics, University of Minnesota)

Bookhagen	Madoff
Caldwell	McCoy
Crosby, B.	McElroy
Crosby, C.	Merritts
Donaldson	Palucis
Finnegan	Perignon
Frankel	Perron
Gellis	Priestas
Harman	Shrestha
Haugerud	Shriver
Hughes	Snyder
Johnson	Strouse
Kochendorfer	Taylor
Legleiter	Wittkop
Madej	Youberg

**Wednesday, June 2**

**2:00-4:30 Workshops 4**

**4A. Identifying and mapping landforms and quantifying fault displacement with lidar digital topographic data**

*Leaders:* Kurt Frankel (Georgia Tech) and Ramon Arrowsmith (ASU)

Adams	Hurst
Caldwell	Johnson
Carter	Lefsky
Casas	Madej
Dietrich	Madoff
Doctor	Martel
Frueh	Perignon
Gold	Shrestha
Haugerud	Wheaton
Hilley	Wittkop
Hughes	Youberg

**4B. 1D open channel flows on lidar data using HecRAS and HEC-GeoRAS**

*Leader:* Noah Finnegan (UC- Santa Cruz)

Bailey	McKean
Belmont	Merritts
Bookhagen	Nagel
Crosby, B.	Palucis
Crosby, C.	Passalacqua
Donaldson	Pelletier
Gangodagamage	Perron
Gellis	Poulsen
Harman	Priestas
Kochendorfer	Shriver
Legleiter	Snyder
Limaye	Strouse
Lohse	Taylor
McCoy	Wilcox
McElroy	