2014 Structural Geology and Tectonics Forum TLS Short Course

807 Chris Crosby June 25, 2014 Short Courses 2207

Structural Geology and Tectonics Forum

Introduction to terrestrial laser scanning (ground-based LiDAR) for Earth science research

Location & Date

UNAVCO Facility, Boulder, CO, June 20, 2014

Summary

Workshop description: This one-day course will provide faculty, students and professionals with an introduction to Terrestrial Laser Scanning (TLS - a.k.a., ground-based lidar). TLS provides high-resolution three-dimensional images of geologic features, and has emerged as a powerful tool for applications ranging from outcrop mapping to analysis of earth surface processes. The course will focus on TLS technology, data collection, processing and analysis, and examples of science applications. A combination of lectures and hands-on demonstrations of TLS equipment and data processing will be used.

Agenda (PDF)

Slides and other materials

Introduction to TLS and applications (Crosby)

TLS Parameters, Workflows and Field Methods (Olsen)

TLS data products and analysis (Crosby)

UNAVCO TLS support resources, community lidar resources, future directions (Crosby)

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Online URL:
https://kb.unavco.org/article/2014-structural-geology-and-tectonics-forum-tls-short-course-807.html