

# GSA 2013: Introduction to Terrestrial Laser Scanning (Ground-Based LiDAR) for Earth Science Research

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*Geological Society of America Annual Meeting Short Course*

Introduction to Terrestrial Laser Scanning (Ground-Based LiDAR) for Earth Science Research (GSA course 501)

Friday, October 25, 2013 8:00 a.m. - 5:00 p.m.

UNAVCO, Boulder, CO

*Cosponsor: UNAVCO*

*Instructors:* Christopher Crosby, UNAVCO; Marianne Okal, UNAVCO Carlos Aiken, The University of Texas at Dallas

This one-day short course will provide earth science faculty, students and professionals with an introduction to the principles of Terrestrial Laser Scanning (TLS - a.k.a., ground-based lidar). TLS enables the capture of very high-resolution three-dimensional images of geologic features, and has emerged as a powerful tool for applications ranging from outcrop mapping to documentation and analysis of active earth surface processes. The course will focus on TLS technology, data collection, processing and analysis workflows, and examples of science applications. The course will consist of a combination of lectures and hands-on demonstrations of TLS equipment and data processing.

## Presentations:

[Course welcome, lidar & TLS introduction, science applications](#) (Crosby)

[TLS Parameters, Workflows and Field Methods](#) (Okal)

[TLS data products and analysis](#) (Crosby)

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

Posted by: [Chris Crosby](#) - Tue, Nov 5, 2013 at 8:10 PM. This article has been viewed 11008 times.

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