

GSA 2014: Introduction to Terrestrial Laser Scanning for Earth Science Research and Education

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Geological Society of America Annual Meeting Short Course, Vancouver, BC

Introduction to Terrestrial Laser Scanning for Earth Science Research and Education

Sat, 18 Oct. 2014, 8 a.m.–5 p.m.
Harbour Centre Policy Room 1600

Instructors: Christopher Crosby, UNAVCO; Marianne Okal, UNAVCO; Carlos Aiken, Univ. of Texas at Dallas

This one-day course will provide faculty, students, and professionals with an introduction to Terrestrial Laser Scanning (TLS—aka 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.

Presentations:

- [Course welcome, lidar & TLS introduction, science applications](#) (Crosby)
- [TLS Parameters, Workflows and Field Methods](#) (Okal)
- [TLS data products and analysis](#) (Crosby)
- [TLS support resources, community lidar resources, future directions](#) (Crosby)

Posted by: [Chris Crosby](#) - Sat, Oct 18, 2014 at 6:59 PM. This article has been viewed 1583 times.

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