

# GSA 2012: Terrestrial Laser Scanning (Ground-Based LiDAR) Methods and Applications in Geologic Research & Education

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## Terrestrial Laser Scanning (Ground-Based LiDAR) Methods and Applications in Geologic Research & Education

*Instructors:* David Phillips and Christopher Crosby, UNAVCO; Carlos Aiken, The University of Texas at Dallas

*Course Description:* Terrestrial Laser Scanning (TLS), a.k.a. ground-based LiDAR, workflows and best practices for the acquisition and processing of TLS data, an overview of various TLS platforms, and examples of science and education applications. This 1-day workshop will consist of lectures and hands-on application of TLS equipment and data processing. TLS provides very high-resolution images over relatively small areas, is relatively inexpensive to acquire, and has been used successfully to support a wide range of geoscience investigations from outcrop mapping to deformation monitoring.

### Presentations:

- [Introduction to TLS and Applications](#) (Phillips)
- [Introduction to TLS data collection and processing](#) (Crosby)
- [UNAVCO TLS support resources, community lidar resources, future directions](#) (Crosby)

### Group Photo:



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