

The following relevant material for the C19 webpages has been collected by Engineering Geology students of Prof. Scott Burns at Portland State University (USA) in the framework of a students assignment. This material has not yet been screened and commented nor approved by the C19 chair and membership.

## **Text Books**

Shan, J. and Toth, C.K. (2008). Topographic Laser Ranging and Scanning – Principles and Processing. CRC Press, Taylor & Francis, London, 590 p.

This book covers the basics of laser ranging and profiling, as well as more advanced aspects of terrestrial and airborne laser scanning. Other topics include calibration of LiDAR systems, terrain mapping, georeferencing LiDAR, Small-Footprint pulsed laser systems, and quality assurance and quality control. Very few books exist on the subject of 3D terrestrial laser scanning as the field is still very new and most of the advancements and developments are discussed in journal articles, conference proceedings, and other technical reports.