Blue Marble at Optech Lidar Conference

During the Optech Innovative Lidar Solutions conference in Toronto, Canada, to be held from 31st May to 2nd June, Adam Hill of Blue Marble will be presenting on the key concepts for maintaining high-accuracy Lidar data, identifying and preventing processes that degrade data quality, vertical datum transformations, and the real world need for quality metadata.

Blue Marble's geospatial data manipulation and conversion solutions are used worldwide by thousands of GIS analysts at software companies, universities, oil and gas companies, civil engineering, surveying, technology, enterprise GIS groups, government and military organisations.

Mr. Hill will present a talk on the expansion of Lidar technology. The focus will be on the enhancements of point cloud resolutions and the increased availability of more precise, and consequently, more vulnerable data. Lidar, like any geospatial data, can be extremely valuable when gathered, managed, and utilised correctly. A particularly unique characteristic of Lidar data is the elevation aspect and related 3D coordinate values. When dealing with 3D coordinates, there are extra challenges beyond those that are typical with 2D projected or geographic coordinates. Lidar data transformations can have major effects on the overall accuracy of the data, and consequently lead to poor analysis when introduced into a project incorrectly.

Without proper checks and balances through a combination of; education, training, software use, and clearly defined processes, accuracy degradation can go unnoticed until it is too late. Improper transformation can easily embed corrupted data into your workflow which, you or your users may not find until it is too late.

Last year Optech incorporated Blue Marble's GeoCalc (coordinate conversion) and GeoTranslate (Lidar processing) libraries into their Lidar Mapping Suite (LMS). In leveraging Blue Marble's expertise in this field, Optech now provides their global customers with a reliable and flexible way to manage and process large Lidar point-cloud re-projections.