



Department of Physics and IEEE NBC subsection

Light Detection and Ranging (LIDAR) at UNBC

Speaker: Rob Vogt

Abstract:

Light Detection and Ranging (LiDAR) measures the time-of-flight for reflection of visible or near-visible wavelength laser pulses to create high-resolution 3D models of Earth surfaces. This talk aims to discuss the underlying principles of LiDAR and showcase the spectrum of products it provides to research teams at UNBC.

A LiDAR scanner consists of a laser emitter and a detector. Each laser pulse yields one or more discrete points in 3D space. From the resulting point cloud, a variety of models can be generated including: surface, bare earth, and canopy height. Repeat scans at a later date allow for detection of change in terrain (eg. glacier change or landslides). + Date Monday February 15, 2016

+ Time 2:30 – 3:30 P.M.

+ Location Library Building

5-174

+ Contact

Name: Dr. Matthew Reid

LiDAR has many research applications from archaeology to forestry to glaciology. While our research group's main focus is monitoring glacier change, we have collaborated with a number of research groups to fly a variety of study areas. Phone: 250-960-6622 Email: matthew.reid@unbc.ca

Everyone welcome Light refreshments served

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