



# Spring Seminar

Friday, April 21, 2017

The Inn at Essex, 70 Essex Way, Essex, Vermont



## Program Schedule

- 7:15 AM** Registration Opens, Continental Breakfast
- 8:00 AM** Mapping with Drones in Survey Applications
- 10:00 AM** Use of Lidar/Scanning in Survey Applications
- 12:00 PM** Lunch and VSLs Business Meeting
- 1:00 PM** New Technology Survey Applications
- 3:00 PM** Final Announcements

Registration Fee	Through April 12	After April 12
Member in good standing	\$145.00	\$170.00
Non-member	\$195.00	\$220.00
Life Member	\$105.00	\$130.00
Non-member technical staff attending with member	\$116.00	\$141.00
Three attendees from same firm (one must be member)	\$116.00	\$141.00

Payment will be refunded in full if cancellation is received at least 72 hours prior to the event. Substitutions are allowed.

Overnight rooms: \$129/night plus tax. To reserve, call (802) 878-1100 and mention the VSLs Seminar.

### Mapping with Drones in Survey Applications (2.0 PDH)

*Presenter: Raymond Hintz, University of Maine*

Types of drones and their intended uses in survey work will be discussed. Following this will be an in-depth discussion of how the definition of photogrammetric product has changed dramatically due to automated processes and how this integrates into the drone mapping product. The project planning and processing of a job utilizing production software will be presented. A fixed wing drone will be brought to class and if time and weather permits a flight will occur.

### Use of Lidar/Scanning in Survey Applications (2.0 PDH)

*Presenter: Raymond Hintz, University of Maine*

Lidar is a form of 3-D survey data collection that can be thought of as an alternative product to photogrammetry. Static, mobile, and airborne Lidar will be discussed and how this information is integrated with survey grade GPS and Inertial units. Lidar data sets will be presented and processed in an example industry standard software.

### New Technology Survey Applications (2.0 PDH)

*Presenter: Tim Patch, Principal, SGC Engineering, LLC*

Continuing with the theme of the morning presentations, this section will explore the utilization of Lidar (static, mobile, and airborne) and drones on actual survey projects. Specific project examples will be presented and discussed. Additionally, although not necessarily a new technology, the utilization of GIS for data management as "the way we should do business" will be presented.



This event has been approved for 6.0 PDH credits by the Vermont Board of Land Surveyors.

## Registration (please complete this form and mail it with your payment, or register online at vsls.org)

Name \_\_\_\_\_

Business \_\_\_\_\_

Address \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_

Dietary restrictions \_\_\_\_\_

Check enclosed (payable to VSLs) for \$ \_\_\_\_\_

Credit card:  VISA  MC  AMEX  DISC

Card Number \_\_\_\_\_

Exp. Date \_\_\_\_\_ Security Code \_\_\_\_\_

Signature \_\_\_\_\_

Please return form with payment to: VSLs, P.O. Box 248, Montpelier, VT 05601-0248. Questions? [kelly@vsls.org](mailto:kelly@vsls.org)