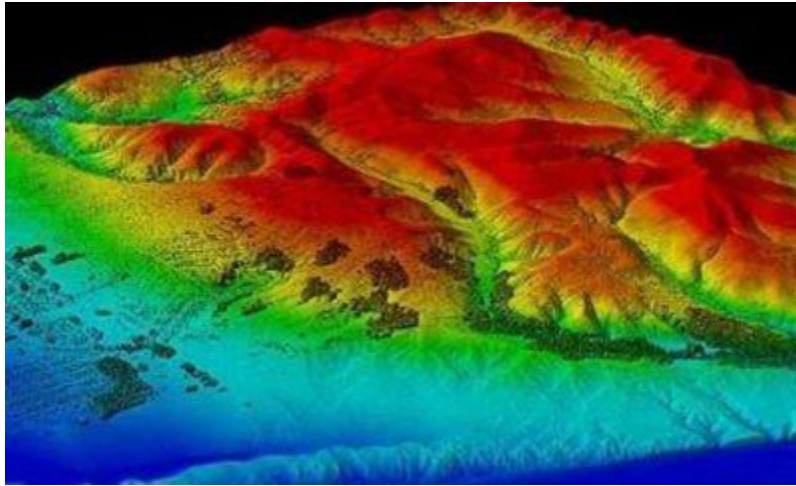




**CT Association of Land Surveyors Presents:**

# **LIGHT DETECTING AND RANGING (LIDAR) For Land Surveyors--- A Webinar**



**THURSDAY, JULY 8, 2021 8:30 am – 12:30 pm**

## **PRESENTER: Prof. Ray Hintz, PhD, University of Maine, Surveying Engineering Technology Program**

Prof. Hintz is a professional land surveyor (FL, ME) who focuses his practice on data collection. He is the author of several surveying software programs used by approximately 25 department of transportations and their consultants. Ray currently teaches three to four courses a semester - from basic surveying to photogrammetry. He is an article reviewer for several professional publications and helps prepare exams for photogrammetry certification. Ray is a member of: ASPRS, MSLS and MALSCE.

## **WEBINAR OVERVIEW:**

Lidar has become an exciting alternative to ground survey and photogrammetric techniques in mapping applications. Fixed wing aircraft Lidar has the ability to penetrate foliage and thus obtain a ground elevation model in forested areas. In the last two years the amount of Lidar based Unmanned Aerial Vehicles (UAV) has been cutting into the UAV photogrammetric market. One needs to understand how survey grade kinematic GPS-IMU is used in conjunction with the Lidar to obtain survey grade accuracies. Ground based static Lidar is a mainstay of certain mapping applications. But mobile Lidar (ground vehicle mounted) with GPS-IMU is cutting into the static Lidar niche. The complications of resolving survey grade GPS-IMU in urban situations where GPS signal is random needs to be discussed and how much survey control may be required to resolve the issue.

## WEBINAR OBJECTIVE:

Upon successful completion of this course, participants will be able to:

- Knowledgeably recognize LIDAR products and their accuracy
- Understand and apply LIDAR tools to meet client and professional mapping standards

## COSTS, REFUNDS, CANCELLATION POLICIES:

Registration fee for the workshop: \$85\* for CALS members, \$110 non-member. Members of other state surveying societies are welcome. Full refunds for cancellations made 48 hours prior to the workshop. \* Only those registered for the webinar are eligible to receive professional development credits.

## SCHEDULE:

- The history and development of LIDAR..... 8:30am-8:45am
- The science and technology behind LIDAR ..... 8:45am-9:00am
- Aerial LIDAR vs. traditional photogrammetry..... 9:00am-9:45am
- Break for 15 minutes
- Ground based static LIDAR .....10:00am-10:45am
- Ground based mobile LIDAR..... 10:45 – 11:30am
- Break for 15 minutes
- Survey control for engineering grade LIDAR solutions ..... 11:45am-12:30pm
- Questions & Answers

## CONTINUING EDUCATION CREDIT:

Professional Development Hours (PDH) will be award to each participant who passes a written evaluation with a score of 70 or above. This is a “live” presentation with two way communication by chat as well as microphone, which meets NY requirements for a live seminar. PDH credits will be requested for NY 0.35 CEU or 3.5 PDH, NH 0.9 CEU, VT, RI, ME 3.5 PDH.

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## REGISTRATION: LIDAR Detecting & Ranging for LS, July 8, 2021

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Email: \_\_\_\_\_

Credit Card Number: \_\_\_\_\_ Expiration date: \_\_\_\_\_

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Phone (860) 563-1990, Fax (860) 529-9700, email [kathy@ctsurveyors.org](mailto:kathy@ctsurveyors.org)

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