



NEW HAMPSHIRE LAND SURVEYORS ASSOCIATION

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NHLSA SUMMER QUARTERLY BUSINESS MEETING & SEMINAR

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Our Summer Quarterly business meeting & seminar will be held at **The Falls Event Center** on **Friday, June 25th**, located at 21 Front Street in Manchester.

The Program Chair and Education Committee are pleased to invite you once again to come together in just a few short weeks. We've all adapted over the past 15 months to stay up to date in a variety of manners and this will be no different. Similar to the Fall Quarterly last year, the Association will offer these three seminars virtually as live webinars via Zoom should you not want to make the trek to Manchester. The other facets of the day will be omitted from the live stream, including the committee meetings, raffles, auctions, and meals.

Health & Safety

Presenter: K O Bisson of Manchester Safety Specialists. K O typically holds an "in the round" presentation featuring basic first aid situations and actions that one might encounter at work, in the home, or at play. Her low-key and engaging manner carry through to make her presentations "Fun ... Engaging ... Educational!" That is an understatement, as her way of drawing in and interacting with the attendees is unique; you will learn a lot.

FAA Part 107 Certification Overview and Recent Changes in Part 107 Rules and Regulations

This session will provide a high level overview of the FAA Part 107 certification process, including the requirements to become a commercial drone pilot, the subject topics required to master in order to pass the sUAS aeronautical knowledge exam, and the process for completing an application to receive a commercial remote pilot certificate after passing the knowledge exam. In addition, recent changes in Part 107 will be discussed, regarding specifically, rules and regulations on the implementation of Remote ID, operating drones over people and moving vehicles, and at night. Lastly, new changes in recurrent knowledge testing will also be covered.

Presenter: Mark Donovan is the President of Falcon Imagery, a NH based sUAS services company offering professional drone services for residential and commercial real estate, and teaching/consulting services for FAA Part 107 certification. Mark holds a BS in Electrical Engineering from the University of Massachusetts, Lowell, and an MBA from Southern New Hampshire University. He is also a licensed commercial manned pilot and a Certified Flight Instructor (CFII), and is a Mission Pilot and Flight Instructor/Checkpilot with the NH Wing Civil Air Patrol. He is also a Part 107 certified remote pilot. Mark is also a Senior Marketing and Business Development Manager for ams OSRAM AG, and has 30+ years of engineering and marketing experience in the areas of magnetic sensing, projected lighting, radar signal processing and telecom/Datacom.

Least squares analysis in solving 2021 ALTA Relative Positional Precision Standards

The use of least squares is often a difficult subject in much of the surveying world because it uses math that we are not familiar with, or it is math we started at long ago in a surveying class and worked hard to forget. We need to become comfortable with its use and learn that it can enhance our abilities in surveying. The seminar will start with real total station data and how it is

simple to analyze a least squares report. Next GNSS network adjustment results will be examined. The least squares component of the 2021 ALTA/NSPS standards will next be examined as a standard most surveyors at some point need to deal with. The concepts of relative vs. absolute error ellipses vs. distance error between computed points and how 95% confidence is achieved will be themes throughout the discussion using the ALTA standard as an example. Suggestions for passing such standards by predicting error ellipses for normal survey situations will be presented. The seminar is very question/answer oriented.

Presenter: Ray Hintz, PLS, PhD, Professor of Surveying Engineering Technology, University of Maine.

The Foundation is in the process of creating a new education fund, the Robert G. Moynihan Education Fund. During the social, the Foundation will explain the intent of this new fund and how it is to be initially funded; with the sale of the gifted equipment from the Thompson School. A few pieces of equipment will be at the Event Center for a raffle and hopefully a quick but lively auction will take place when a more desirable piece or two go up for bid.

**DON'T FORGET TO SIGN IN AT THE BEGINNING
OF THE SEMINAR AND/OR MEETING AND OUT AT THE END**

Tentative Seminar Schedule - 2.0 CEUs

7:30-8:00am	Registration + Continental Breakfast
8:00-9:45	Health & Safety
9:45-10:00	Break – Coffee & Tea refresh
10:00-12:00pm	FAA Part 107 Certification Overview
12:00-1:00	Buffet Lunch: The Sandwich Board: Fresh Garden Salad & Pasta Salad, assortment of Deli Sandwiches & Wraps to include; Sliced Maple Glazed Ham, Roast Beef, Turkey Breast, Roasted Vegetables & Hummus, Tuna Salad and Waldorf Chicken Salad; Individual bags of chips, Pickles, Mayonnaise and Mustard packets
1:00-2:15	Least Squares Analysis in Solving ALTA Relative Positional Precision Standards
2:15-2:30	Afternoon Break – Assorted Soft drinks, Bottled Waters, Freshly Baked Cookies & Brownies
2:30-4:00	Least Squares – cont'd.

Meeting Schedule - 1.0 CEU for 50% of meetings per year

4:00-6:30	Social with appetizers & Cash Bar (beer & wine) NHLSF Raffle
4:00-4:45	Committee meetings
4:45-6:30	Business Meeting & Raffle draw
6:30-8:00	Plated Dinner: Choice of Chicken Parmesan OR Baked Stuffed Haddock Includes: Caesar salad (dressing on the side), Roasted Rosemary Potatoes, Roasted Green Beans, Artisan Breads and Rolls, Assorted Cupcakes, Coffee, Tea, and Decaf Airpots

Questions? Call: The NHLSA Office @ 603-895-4822

The Falls Event Center @ 603-325-0035
<https://thefallscenternh.com/>

**Note: If you think you have a credit from the 2020 Spring Quarterly,
please contact the office to confirm.**

Summer Quarterly Friday, June 25, 2021

RESERVATION DEADLINE:

Please make every effort to mail, fax, or email your registration before June 18th
(add \$25 late fee if postmarked after the registration deadline)

Make checks payable to **NHLSA** and mail to PO Box 689, Raymond, NH 03077

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

COMPANY: _____ TELEPHONE: _____

EMAIL: _____

OTHER ATTENDEES: _____

**If you are not a current NHLSA member and would like to join,
we will apply the \$100 difference (for active members) to your membership.
NESS members may take advantage of the member rate!**

Seminar (member)	_____	x	\$150.00	_____
Seminar (non-member)	_____	x	\$250.00	_____
Seminar (SIT member)	_____	x	\$ 75.00	_____ SIT # _____
Seminar (student member)	_____	x	\$ 50.00	_____
Seminar Matching Fund Program	_____	x	\$ 20.00	_____
(for unemployed or under-employed members – call office for details)				
Seminar Matching Fund Donation				_____
Zoom Seminar (member)	_____	x	\$ 80.00	_____
Zoom Seminar (non-member)	_____	x	\$120.00	_____
Plated Dinner				
Chicken Parmesan _____	Baked Haddock _____	x	\$45.00	_____
Seminar & Dinner				
(save \$25)	_____	x	\$170.00	_____
Business Meeting	_____			
Please check for planning purposes				

TOTAL: _____

Check# _____

See reverse side for credit cards

If paying by CREDIT CARD, FAX completed registration form to: 603-386-6856

Indicate credit card: ___ Visa ___ Mastercard ___ AMEX ___ Discover

Card Number: _____ Exp. Date: _____ Security Code: _____

Name on Card: _____

Address for Card (if different from above): _____

Signature: _____

[CARDMEMBER ACKNOWLEDGES RECEIPT OF GOODS AND SERVICES
IN THE AMOUNT OF THE TOTAL SHOWN HEREON AND AGREES TO PERFORM
THE OBLIGATION SET FORTH BY THE CARDHOLDER'S AGREEMENT WITH THE ISSUER]

IF A RECEIPT IS REQUIRED, PLEASE LET US KNOW AHEAD OF TIME,
SO IT WILL BE READY AT THE REGISTRATION DESK –
CREDIT CARD RECEIPITS WILL BE EMAILED WITH A VALID EMAIL ACCOUNT

Overnight Accommodations:

La Quinta Inn & Suites
21 Front Street, Manchester 915-888-3787

Hilton Garden Inn
101 South Commercial Street, Manchester 855-618-4697