



NEW HAMPSHIRE LAND SURVEYORS ASSOCIATION

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TO: MEMBERS, FRIENDS, AND NEWLY LICENSED LLS's
SUBJECT: **NHLSA SUMMER QUARTERLY SEMINAR, PICNIC & BUSINESS MEETING**

Sponsored By



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Come join us and bring the family. Be prepared for some outdoor activities, a picnic, and good company. Maybe even enjoy a little camping.

The Summer Quarterly will be held at Pawtuckaway State Park in Nottingham, NH. The day will include some excellent educational sessions in the morning – presented in two tracts; a "seasoned surveyor" and a "young surveyor" tract. After class there will be a super special, Executive-Board-Grilled picnic! A classic charcoal cooked picnic for members and their families is just what the doctor ordered. We'd love to include all members by inviting you to bring along your favorite dish, side or dessert, to share and show off your culinary skills. This is a BYOB park.

Mike Hammer will start off the young surveyors track with "**COGO for Technicians Level 1**". This presentation sets the foundation of Coordinate Geometry Survey Calculations by applying Azimuths, Bearings, and Trigonometric Formulas to compute local coordinates from plans. Participants will reduce a record plan, compute corner coordinates, and compute a coordinate inverse as a check. An understanding of the relationship and operation of Azimuths and Bearings is recommended in advance of the course. **A Bearing and Azimuth primer / refresher is available over Microsoft Teams at 7:00pm on June 8th. Required materials:** pencil, paper pad (preferably graph), and a scientific calculator with SIN, COS, TAN, DD, and DMS function. It would be a good idea to use one that is compatible with the SIT/FLS exam requirements. Participants are expected to know how to enter DMS into their calculator.

Alongside Mike's class, **Luke Powell** will present to the seasoned surveyors, "**How Site-Specific Soil Surveys are Done.**" Luke is a Wetland Scientist, Soil Scientist, and Forester. He will also be conducting a couple of hand dug soil samples on site using a tool known as a hand auger.

Jay Aube will follow Mike with the young surveyors discussing **Surveying within 250' of Protected Waterbodies**. Jay will discuss a lot of the fundamentals of the permitting process and the site elements that must be depicted on plans, including inventorying trees.

Following Luke, **Charles Adams and Rick Brown** from Ambit Engineering will present the seasoned surveyors with a Bathymetric Demo." Utilizing a Drone. The Drone is a portable, professional grade, watertight marine component that can be remotely controlled or autonomously navigated. It is designed to extend the capabilities of traditional survey equipment and efficiently conduct missions on the water. Allowing the surveyor to take measurements with a SonarMite from a total station to map the seafloor from the safety of the shoreline.

We will demonstrate the assembly, workflow of data collection, and capabilities of the Drone and discuss how we have been able to add this great piece of equipment to our ever-expanding toolbox.



After lunch is when the real fun begins! We are planning on a classic **Survey Muster**, where teams of 2, 3, or 4 people are put through a gauntlet of classic field surveying tasks. If for some reason you forget your robotic total station that day... never fear, for we'll have plenty of theodolites and transits for the teams to become (re)acquainted with. Afterall, it wasn't *that* long ago when field crews didn't need to bring battery powered gear with them!

**Parking & park access is free –
when arriving, mention you are there for an NHLSA event at the Pavilion**

Planning on camping? Reserve your site by following this link:

[Pawtuckaway Camp Ground Reservation](#)

If you have an item you would like to donate to either the **Foundation fundraiser raffle** or a door prize, please bring it along. Door prize tickets will be given to those attending.

We hope you'll join us in congratulating the Spring Scholarship recipients! As of today, we know that the Richie Ladd Memorial scholarship recipient will be in attendance, and we're hopeful the Moran Family scholarship recipient will also attend.

This is the **free seminar** of the year, but you must be a member, family members and speakers excluded, and is limited to the first 100 members. If we exceed that, we will review as needed to add additional members.

Tentative Schedule

Seminar CEUs – 2.0

Time Period

Young Surveyors

Seasoned Surveyors

8:30 – 9:00 am

Registration

Registration

9:00 – 10:30

Mike Hammer

Luke Powell

10:30 – 12:00 pm

Jay Aube

Ambit Engineering

12:00 – 1:00

Lunch

1:30 – 3:30

Surveyors Muster

3:30 – 4:30

Committee Meetings & Social hour

4:30 – 5:30

Business Meeting

PICNIC & MEETING*

THURSDAY – JUNE 15, 2023

RESERVATION DEADLINE:

For a food count, RSVP by June 8th.

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

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

COMPANY: _____ TELEPHONE: _____

FAMILY MEMBERS/GUESTS: _____

Picnic (member) _____ \$0.00 _____

Spouse/Guest (includes kiddos) _____ \$0.00 _____

Business meeting only _____ N/C _____

I would like to make a monetary donation (**check or cc**) _____

I would like to make a food donation: _____

AMOUNT ENCLOSED: _____

**The event is BYOB, so make sure you bring plenty of your favorite beverages, coffee, soft drinks, water, etc.*

Paying by CREDIT CARD? FAX completed registration form to: 603-386-6856

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

Card Number: _____ Exp. Date: _____ CVV: _____

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