



**New Hampshire
Land Surveyors Association
56th Annual Meeting &
Equipment Show &
9th Annual NESS Conference**



**Meet
Our
Sponsors**



December 4—5, 2025

**DoubleTree by Hilton
Manchester Downtown**

700 Elm Street, Manchester, NH



NHLSA 56th Annual Meeting & Equipment Show

Welcome to the NHLSA Annual Meeting

The best two-day Survey conference you'll attend

On behalf of the NHLSA Executive Committee, let me welcome you to the 56th Annual Meeting & Equipment Show of the New Hampshire Land Surveyors Association! The team has been working on this event since December 2024. That's right – these events take about a year to plan! In addition to this being the NH Conference, 2025 brings the North East Surveying Societies (NESS) together under one roof here in New Hampshire. That means not only will you be catching up with fellow NH Surveyors, but we will also have members from seven states including all the New England Surveying Societies and NYSAPLS (The New York surveyors prefer to pronounce it "Nice Apples!") So, introduce yourself to the person on your left and on your right. You never know what you might learn.



I ask everyone reading this welcome message to reflect on some of the great projects you worked on, as well as some of the lessons you learned – and then share those stories with others. That is **literally** the point of these conferences, the sharing of information so that we may continue our education. I don't know about you, but for me personally, I generally learn the best lessons the *hard way*. Maybe we can reduce the pain of another surveyor if we share our hard-learned lessons.

I have a much more detailed report on the successes of NHLSA in the 56th Annual Meeting Booklet, and I encourage all members to read all the reports from the Executive Committee. In this representative democracy, the ExCom is trying to serve the membership the best way we can. Feedback is a gift, so please let the ExCom know how better to serve.

In closing, thank you for your participation in the Association. Whether this is your first annual meeting, or your 56th, we're glad you are here. Have some fun, meet some new folk, and learn something.

Craig T. Bailey, LLS, PE, PSM
NHLSA 56th President

NHLSA GOALS & COMMITTEES

Please consider volunteering to become a chair of a vacant committee and/or join an ongoing committee. There are some committees with only one volunteer, for instance, the website. This committee could definitely use additional minds and hands.

NHLSA wouldn't survive without all the great volunteers.

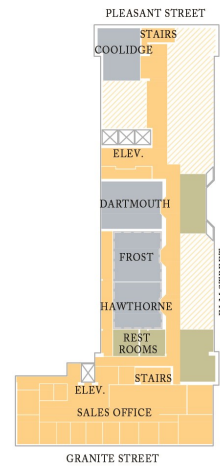
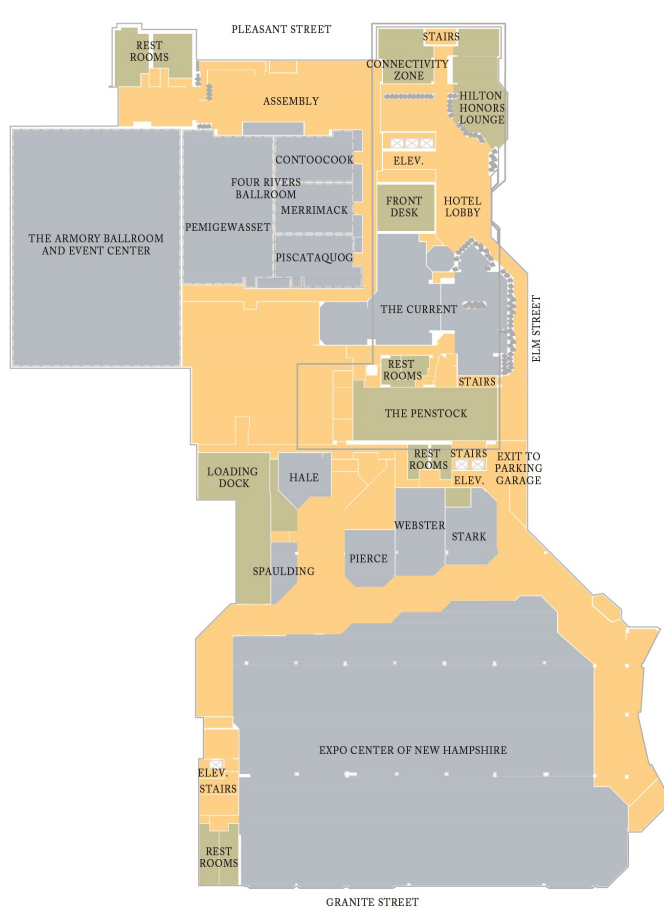
For the second year in a row, we are heading into this year's Annual Meeting without a Vice President and a Treasurer candidate.

Location: NHTI, Concord, NH
January 10, 2026 - 9:00 A.M. – 3:00 P.M.



HOTEL LOGISTICS

NHLSA 56th Annual Meeting & Equipment Show



ROOM CAPACITIES

	Expo Center	Armory
Ceiling Height	14'	14' to 20'
Clearance	11' 6"	14'
Total Square Feet	29,480	11,700
Dimensions	193' x 145'	90' x 130'
Number of 8x10 Booths	210	88

We have over 65,000 square feet of event space for your next function. Endless ways to customize your event, with access from Elm, Pleasant, and Granite Streets.

MEETING ROOM CAPACITIES

Room Name	Square Feet	Dimensions	Theater	Classroom	Reception	Rounds of 10	Hollow sq/Conference	U-Shape
Coolidge	532	19' x 28'	N/A	20	N/A	N/A	14	10
Dartmouth	891	27' x 33'	60	40	60	50	24	16
Frost or Hawthorne	702	27' x 26'	55	30	55	50	21	15
Frost & Hawthorne	1,404	54' x 26'	90	60	100	90	36	25
Four Rivers Ballroom	8,160	96' x 85'	850	500	900	560	N/A	N/A
Pemigewasset or Contoocook, Merrimack & Piscataquog	4,080	85' x 48'	425	250	450	280	N/A	N/A
Contoocook, Merrimack or Piscataquog	1,344	28' x 48'	125	60	125	80	40	35
Contoocook & Merrimack or Merrimack & Piscataquog	2,736	57' x 48'	250	125	250	160	75	60
Armory	11,700	90' x 130'	1,200	650	1,200	800	N/A	N/A
Expo Center	29,480	193' x 145'	1,400	1,400	1,400	1,400	N/A	N/A
Stark	938	36' x 26'	75	45	75	70	28	24
Webster	1,115	41' x 36'	120	56	100	90	36	30
Pierce	774	39' x 27'	56	40	60	60	24	20
Hale	644	23' x 28'	50	24	50	50	21	18
Spaulding	420	33' x 13'	32	18	32	20	N/A	N/A

HOTEL INFORMATION ON PAGE 18.

PROGRAM AT A GLANCE

REGISTRATION—ASSEMBLY

NHLSA 56th Annual Meeting & Equipment Show

2.0 CEUs for the entire day

**Thursday
December 4, 2025**

BADGES REQUIRED - ALL EVENTS

Please help your fellow members and guests identify you by name by wearing your badge.
(meal tickets included in your badge)

7:30 AM

◆ **Registration Desk Open (Assembly)**

◆ **Continental Breakfast (Armory)**

Assorted breakfast breads, sweet cream butter and fruit preserves, sliced seasonal fruit, orange, cranberry & apple juice, Starbucks regular & decaffeinated coffee, and assorted Tazo hot teas

◆ **Exhibitor Installation**

Thursday, December 4, 2025

8:00 a.m.—12:00 p.m. or 7:00 p.m.—9:00 p.m.

(Pemigewasset Room)

8:00 AM—10:00 AM

◆ **Session 1: Professional Track: GIS Technology for Surveyors**

(Merrimack/Contoocook Rooms)

8:00 AM—10:00 AM

◆ **Session 2: Technician Track: The Fundamentals of Surveying (FS) Exam**

10:00 AM—10:15 AM (Exhibitors Available)

◆ **Morning Break (Armory)** Seasonal infused water, Starbucks regular and decaffeinated coffee and assorted Tazo hot teas

(Pemigewasset Room)

10:15 AM—12:00 PM

◆ **Session 3: Technician Track: Navigating a Geospatial Career**

(Merrimack/Contoocook Rooms)

◆ **Session 4: Professional Track: Positional Tolerance From All Forms of GNSS Measurement**

12:00 PM—1:00 PM (Exhibitors Available)

◆ **Lunch Buffet (Armory)**

Italian Trattoria Experience: **Starters:** Classic Caesar salad, Mediterranean pasta salad; **Sandwiches:** Fire-roasted vegetables w/hummus, herb focaccia bread; Romano-crusted chicken breast w/sliced tomato crisp, arugula, sour-dough bread; Italian w/salami, soppresseta, provolone, pepperoncini, tomato, herb focaccia bread; **Accompaniment:** House-made garlic and parmesan cheese chips; **Dessert:** Italian cookies and pastries; Starbucks regular and decaffeinated coffee, and assorted Tazo hot teas

Note: Please advise of any special meal requests, e.g., vegetarian, gluten-free, etc., when you RSVP.

(Pemigewasset Room)

1:00 PM—3:00 PM

◆ **Session 5: Professional & Technical Track: The Great LiDAR Wave**

3:00 PM—4:00 PM

◆ **Exhibitor Welcome: Rapid Fire Preview & Break (Armory)**

Fruit kabobs with honey yogurt dipping sauce, assorted cookies, lemonade, bottled still water

4:00 PM—6:00 PM

◆ **Business Meeting, Awards (Pemigewasset Room)**

6:00 PM—7:00 PM

◆ **Reception & Foundation Live Benefit Auction (Armory)**

Hors d'oeuvres: Mini Crab Cakes and Ginger Chicken Meatball Skewer

7:00 PM—9:00 PM

◆ **Banquet Buffet—Memorial Park (Three Rivers—Piscataquog, Merrimack, Contoocook)**

Salad: Mixed greens (bacon, shredded cheddar, heirloom tomatoes, shaved red onion), Romaine (cucumbers, sliced strawberries, sliced button mushrooms, dried cranberries, poppyseed dressing); **Entrees:** Wild mushroom ravioli (caramelized onions, spinach, roasted garlic cream sauce), and Herb crusted roasted pork loin (apple and brown sugar glaze); **Accompaniment:** Vegetable rice pilaf and mixed vegetable medley; **Dessert:** Warm apple tart (vanilla bourbon whipped cream) and Cheesecake (seasonal toppings with vanilla bean cheesecake); Freshly baked assorted rolls and butter, Starbucks regular and decaffeinated coffee, and assorted Tazo hot teas.

◆ **Entertainment: Comedians Rob Steen & Jody Sloane (Three Rivers)**

**Certified Survey
Technicians Testing
8:00 AM - 12:00 PM
Piscataquog Room**



PROGRAM AT A GLANCE

REGISTRATION—ASSEMBLY

NHLSA 56th Annual Meeting & Equipment Show

Friday December 5, 2025

7:30 AM

♦ Registration Desk Open (Assembly)

♦ **Continental Breakfast (Armory)**

Same as Thursday

7:30 AM—9:00 AM

♦ **Past Presidents' Breakfast (Piscataquog Room)**

Riverside: Scrambled farm fresh eggs, French toast with maple syrup, Applewood smoked bacon, Pork sausage, Breakfast potatoes, Seasonal fresh fruit and berries, Fruit yogurts, Assorted cereals, orange juice, Starbucks regular & decaffeinated coffee, and assorted Tazo hot teas.

8:00 AM—4:00 PM

♦ **Exhibit Hall Open (Armory)**

Concurrent Sessions

8:00 AM—12:00 PM

♦ **Session 6: Modern Approaches to GNSS Positioning (Pemigewasset Room)**

8:00 AM—10:00 AM

♦ **Session 7: Federal Flood Risk Management Standard (FFRMS) (Contoocook Room)**

8:00 AM—9:00 AM

♦ **Session 8: NHDES Wetlands (Merrimack Room)**

8:00 AM—9:00 AM

♦ **Session 9: Advancing Right-of-Way Safety and Design Efficiency with LiDAR and Geospatial Data Integration (Dartmouth Room)**

9:00 AM—10:00 AM

♦ **Session 10: 2025 NHDES Subsurface Bureau Update (Merrimack Room)**

9:15 AM—11:15 AM

♦ **Session 11: NE Surveying Women Roundtable (Dartmouth Room)**

10:00 AM—10:15 AM

♦ **Morning Break (Armory)**

Same as Thursday

9:30 AM—12:00 PM

♦ **Session 12: NESS Roundtable (Piscataquog Room)**

10:15 AM—12:15 PM

♦ **Session 13: Making Your Job Easier with RTK Today (Contoocook Room)**

10:15 AM—11:15 AM

♦ **Session 14: NHDES Alteration of Terrain (Merrimack Room)**

11:15 AM—12:15 PM

♦ **Session 15: AI for Surveyors: Practical Applications, Benefits, and Pitfalls (Merrimack Room)**

11:15 AM—12:15 PM

♦ **Session 16: U.S.F.S. Tree Identification (Dartmouth Room)**

12:00 PM—2:00 PM

♦ **Session 17: Exclusive Viewing of Exhibit Hall (Armory)**

♦ **Booth 8: Survey Olympics hosted by the Young Surveyors Committee**

12:00 PM—1:30 PM

♦ **Lunch Buffet (Armory)**

Southern Comfort: Entrees: BBQ shredded chicken, BBQ pulled pork; **Accompaniment:** Redskin potato salad (onion, celery, creamy), Coleslaw (traditional cream based), Mac and cheese (cheddar, mozzarella and smoked gouda, panko-herb crusted), Baked beans (brown sugar, caramelized onions, infused smoked bacon), Roasted Brussel sprouts (bacon bits, caramelized onion), Cornbread (traditional southern style); **Dessert:** Apple pie, pecan pie; Starbucks regular and decaffeinated coffee and assorted Tazo hot teas, assorted sodas

Concurrent Sessions Continued

2:00 PM—4:00 PM

♦ **Session 18: Young Surveyors Roundtable (Pemigewasset Room)**

2:00 PM—4:00 PM

♦ **Session 19: Developing the Next Generation of Surveyors (Contoocook Room)**

3:00 PM—3:15 PM

♦ **Afternoon Break (Armory)**

Same as Thursday

50/50 raffle drawing
Check Silent Auction for last bids

2:00 PM—4:00 PM

♦ **Session 20: Reaching New Heights (Merrimack Room)**

2:00 PM—4:00 PM

♦ **Session 21: Beyond the Demo: Real-World PointCloud Workflows with Cyclone 3DR and Reality Cloud Studio (Dartmouth Room)**

2:00 PM—4:00 PM

♦ **Session 22: Creating Base Maps and Preliminary Designs with Public Data (Piscataquog Room)**

See page 18 for DES sessions.

Schedule Subject to Change -
Updates will be emailed, along with
reminders of upcoming deadlines.

NHLSA 56 th Annual Workshop Schedule				
DoubleTree by Hilton Manchester Downtown - Manchester, NH				
REGISTRATION: 7:30 AM		December 4, 2025		
2.0 CEUs	Brent Jones - Ray Hintz Logan Campbell			
7:30 AM 12:00-1:00 PM	Continental Breakfast, Breaks & Lunch in Armory			
8:00 AM 3:00 PM	Professional & Technician Tracks			
TIMES	Pemigewasset	Merrimack	Contoocook	Piscataquog
8:00 AM	Session 1: Professional Track GIS Technology for Surveyors 8:00 am - 10:00 am	Session 2: Technician Track The Fundamentals of Surveying (FS) Exam 8:00 am - 10:00 am		National Society of Professional Surveyors Certified Survey Technicians (CST) Testing 8:00 am - 12:00 pm
8:30 AM				
9:00 AM				
9:30 AM				
10:00 AM	BREAK	BREAK		
10:30 AM	Session 3: Technician Track Navigating a Geospatial Career 10:15 am - 12:00 pm	Session 4: Professional Track Positional Tolerance From All Forms of GNSS Measurement 10:15 am - 12:00 pm		
11:00 AM				
11:30 AM				
12:00 PM	Lunch	Exhibitors Available 12:00 pm -1:00 pm Armory		
12:30 PM				
1:00 PM	Pemigewasset			
1:30 PM	Session 5: Professional Track & Technician Track The Great LiDAR Wave 1:00 pm - 3:00 pm			
2:00 PM				
2:30 PM				
3:00 PM	Exhibitor Welcome - Armory 3:00 pm - 4:00 pm Rapid Fire Preview			
3:30 PM				
4:00 PM	Pemigewasset Room BUSINESS MEETING 4:00 pm - 6:00 pm			
4:30 PM				
5:00 PM				
6:00 PM				
	Certificates will be mailed			

NHLSA 56 th Annual Workshop Schedule					
DoubleTree by Hilton Manchester Downtown - Manchester, NH					
Sign-in/out to receive continuing education units (1/4 ceu will be awarded for each hour session attended) (must attend entire session to receive full credit)					
REGISTRATION: 7:30 AM		December 5, 2025			Assembly Foyer
TIMES					Piscataquog
7:30 AM 12:00-2:00 PM	Continental Breakfast, Breaks & Lunch in Armory				Past Presidents and NESS Breakfast 7:30 am - 9:00 am
8:00 AM 4:00 PM	Equipment Show in Armory				
TIMES	Pemigewasset	Contoocook	Merrimack	Dartmouth	
8:00 AM	Session 6: 8:00 am - 12:00 pm Modern Approaches to GNSS Positioning	Session 7: 8:00 am - 10:00 am Federal Flood Risk Management Standard (FFRMS)	Session 8: 8:00 am - 9:00 am NHDES Wetlands	Session 9: 8:00 am - 9:00 am Advancing Right-of-Way Safety and Design Efficiency with LiDAR	
8:30 AM			Session 10: 9:00 am - 10:00 am 2025 NHDES Subsurface Bureau Update	BREAK	Clean-up + Visit Exhibit Hall
9:00 AM					
9:30 AM		BREAK	BREAK	Session 11: 9:15 am - 11:15 am NE Surveying Women Roundtable	
10:00 AM				Session 12: 9:30 am - 12:00 pm NESS Roundtable	
10:30 AM		Session 13: 10:15 am - 12:15 pm Making Your Job Easier with RTK Today	Session 14: 10:15 am - 11:15 am NHDES Alteration of Terrain		Session 16: 11:15 am - 12:15 pm U.S.F.S. Tree Identification
11:00 AM			Session 15: 11:15 am - 12:15 pm AI for Surveyors		
11:30 AM					
12:00 PM		Lunch 12:00 pm -1:30 pm Armory	Booth 8—Survey Olympics—Hosted by the YSC		
12:30 PM	Session 17: Armory 12:00 pm - 2:00 pm Viewing of Exhibit Hall				
1:00 PM					
1:30 PM					
2:00 PM	Session 18: 2:00 pm - 4:00 pm Young Surveyors Roundtable	Session 19: 2:00 pm - 4:00 pm Developing the Next Generation of Surveyors	Session 20: 2:00 pm - 4:00 pm Reaching New Heights	Session 21: 2:00 pm - 4:00 pm Beyond the Demo: Real-World Point- Cloud Workflows with Cyclone 3DR and Reality Cloud Studio	Session 22: 10:15 am - 12:15 pm Creating Base Maps and Preliminary Designs with Public Data
2:30 PM					
3:00 PM					
3:30 PM					
4:00 PM					
4:30 PM					
5:00 PM					
	Certificates will be mailed				

SEMINAR ★ THURSDAY, DECEMBER 4th

NHLSA 56th Annual Meeting & Equipment Show

2.0 CEUs for the entire day

Thursday's Sponsors



Continental Breakfast

(1) GIS Technology For Surveyors

Brent Jones, PE, PLS
Land Administration Consulting
ESRI

There's a lot going on in with geographic information systems (GIS) for surveyors. From making instant apps and high accuracy direct data collection to National Geodetic Survey (NGS) modernization and parcel fabric survey data management, GIS is part of the professional surveyor's workday. This seminar will touch on much of what is going on and will also detail a little about why surveying is important to developing economies as well as what recent technologies have been developed to support economic growth.

Brent has spent his career modernizing existing land administration systems and designing new GIS-based cadastral management systems for small and large governments globally. He is a licensed professional land surveyor and professional engineer, an NSPS Fellow (National Society of Professional Surveyors), a council member and honorary member of FIG (International Federation of Surveyors) a past president of GPN (Geospatial Professional Network) a past president of GITA (Geospatial Information and Technology Association), a co-inventor of the GeoBlockchain, and a past member of the UNGGIM-LAS United Nations Committee of Experts on Geospatial Information Management sitting on the Expert Group on Land Administration and Management.



8:00 AM—10:00 AM

Pemigewasset Room

(2) The Fundamentals of Surveying (FS) Exam

Raymond J. Hintz, Professor
University of Maine
Surveying & Engineering Technology

The fundamentals of surveying (FS) exam is the first step toward licensure. While preparation can be coursework in a BS degree program in surveying, that is not a path many young surveyors have the time or economic ability to follow. Even those with education

courses need a thorough review to ensure success with the exam. The University of Maine's review class that prepares students for the FS exam has nearly 20 years of evolution that has resulted in a 95% passing success rate. The equivalent of this class will be presented in a condensed form, and all attendees will bring home a series of practice exams for the FS. Select questions from the practice exam material will be discussed in the presentation.

Ray is a professor of surveying engineering technology at the University of Maine and is graduate coordinator for a series of surveying graduate degrees involving 65 surveying students. Prior to his present position, he was an assistant professor of civil engineering from 1983 to 1987 at the University of Florida. He has B.S., M.S., and PhD degrees in Civil and Environmental Engineering with emphasis in surveying and photogrammetry from the University of Wisconsin. His research interests lie in automation of data collection and processing of surveying and photogrammetric information. Specific to the topic of interest, he has been responsible for development of the Cadastral Electronic Field Book, which enables automatic entry of measurement and automated field note information into Cadastral Measurement Management (CMM). At the heart of CMM is a least squares analysis driver for conventional survey measurements and GPS. Both products were developed for the Bureau of Land Management. In conjunction with whom he has developed Geographic Measurement Management, an approved tool for development of their Geographic Coordinate Data Base. GMM has a least squares analysis system which is designed for record survey information. A third project was assisting with the development of Florida Department of Transportation's Electronic Field Book, data processing, and topographic data modeling software system. His primary involvement in this project was the Electronic Field Book Processor (EFBP) which is the least squares analysis engine for an automated link from raw data to final coordinates. EFBP has been adapted to also accept SDMS (AASHTO) format data and various vendor raw survey data formats. He was the primary researcher for survey software development for AASHTO which included support from the Maine Department of Transportation. He has published more than 50 articles in journal and conference proceedings and is a registered land surveyor in the states of Maine and Florida.



8:00 AM—10:00 AM

Merrimack/Contoocook Rooms

Certified Survey Technician Testing
8:00 AM - 12:00 PM
Piscataquog Room
Proctor: John R. Chagnon, LLS

SEMINAR ★ EXHIBITOR WELCOME ★ THURSDAY, DECEMBER 4th

NHLSA 56th Annual Meeting & Equipment Show

DAVID M. O'HARA

Morning Break

(3) Navigating a Geospatial Career

Brent Jones, PE, PLS

Working in the tech sector can yield great rewards, but it comes with risk. Working in the geospatial sector, a subsector of the tech sector comes with similar rewards along with unique opportunities and risks. What are the foundations of a successful career? How is AI going to impact my career? Large company/government agency vs. small company/government agency? Attend this session and benefit from real lessons learned on how to create a decision framework that will help you navigate a career in geospatial.

10:15 AM—12:00 PM
Pemigewasset Room

(4) Positional Tolerance From All Forms of GNSS Measurement

Raymond J. Hintz, Professor

If one accepts the ALTA definition of "Relative Positional Precision" as a target for Positional Tolerance it is quite simple to visualize a conventional traverse processed through least squares generating proper results. It is also easy to visualize a series of GNSS vectors between boundary corners from post-processing generating similar statistics. It becomes quite ambiguous when instead one is using permanent GNSS base stations or Virtual Reference Stations (VRS) in either post processed or real time (RTK/RTN) mode with only one field GNSS rover involved. The seminar will show how all these forms of field surveying can be used to satisfy positional tolerance per the ALTA definition and discuss differences across vendors.

10:15 AM—12:00 PM
Merrimack / Contoocook Rooms

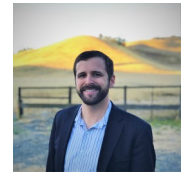


(5) The Great LiDAR Wave

Logan Campbell, Founder & CEO

LiDAR has dominated the conversation around digital mapping and imaging over the past five years. For aerial imaging, every airframe has developed capabilities to carry LiDAR payloads. Ground-based LiDAR scanning has also experienced increasing use, leading to much denser point clouds from which to classify and extract features. When should a practitioner utilize photogrammetry, aerial LiDAR, or ground-based LiDAR? What are the tradeoffs between the three methods of data capture? And, how can blended workflows lead to top notch data capture and reliably accurate mapping deliverables? Join Aerotas CEO Logan Campbell as we discuss these questions and more.

Logan is the Founder and CEO of Aerotas, which provides drone data processing for land surveyors and civil engineers. He founded Aerotas in 2014 and has since helped thousands of surveyors get the highest quality data out of their drone programs. Prior to founding Aerotas, Logan worked as a statistician in the financial services industry. He has an MBA from Harvard Business School with an undergraduate degree from USC. He is a Certified Mapping Scientist with the ASPRS and a CFA Charterholder. As a recognized industry expert, he regularly speaks at survey and drone conferences and writes in numerous land surveying publications.



1:00 PM - 3:00 PM
Pemigewasset Room



Afternoon Break

Exhibitor Welcome
Rapid Fire Review
3:00 PM - 4:00 PM
Armory

This year, exhibitors will also be set up on Thursday as well as the traditional set up on Friday. Feel free to stop in during lunch from noon to 1pm, or during the Rapid-Fire Preview immediately following Session 5, from 3 to 4pm. The following Exhibitors will be available during the Rapid-Fire Preview:

- Booth 9: Waypoint Technology Group
- Booth 10&11: Maine Technical Source
- Booth 12: Carlson Software
- Booth 14: Aerotas
- Booth 15: CADNET Services, LLC
- Booth 16: Advanced Onsite Solutions, LLC
- Booth 17: Keystone Precision Solutions
- Booth 18: CHC Navigation USA Corp.

SPECIAL EVENTS ★ THURSDAY, DECEMBER 4th

NHLSA 56th Annual Meeting & Equipment Show

NHLSA ANNUAL BUSINESS MEETING, AWARDS, & INSTALLATION CEREMONY

The New Hampshire Land Surveyors Association is wrapping up the year at our 56th Annual Meeting and Equipment Show. All members are invited to attend our Annual Meeting where important agenda topics will be addressed. Business includes a frank discussion on the need for a full Executive Committee; we will review the budget and our new Logo. We look forward to seeing you all there.

Craig T. Bailey, LLS, PE, PSM
56th NHLSA President

Pemigewasset Room

4:00 PM - 6:00 PM



Reception

NHLSA RECEPTION WITH HORS D' OEUVRES, CASH BAR, AND NHLSF LIVE BENEFIT AUCTION

If elected at the Installation Ceremony, I will be your new President for our 57th year, and I invite you to join us for a reception after the conclusion of the Annual Business Meeting. This year we will gather in the large Armory room, where the cash bar drinks will be flowing and hors d'oeuvres will be circulating. During this hour we will again be holding our Live Auction, with proceeds to benefit the NHLSF Scholarship Fund.

After a memorable performance last year, Past President Ryan Fowler has agreed to be our lively host once again, with the assistance of our generous volunteers.

Don't forget to pick up your paddle to bid on items!

Seth E. Burnell, LLS
President-Elect

Armory

6:00 PM - 7:00 PM



NHLSA AWARDS BANQUET

I invite you to join me for the Awards Banquet and enjoy a delicious meal, beverages, and continued conversation with friends, colleagues, or someone you have yet to meet. The fun will then continue with two comedians we have lined up for this evening.

If you are a winner of the NHLSA Map Contest, don't forget to stop by the registration table to claim your drink ticket!



We will end the evening with a door prize. Members who register for two days will receive a ticket during registration, and you must be present to win.

Scott Boudreau, LLS
Vice President

Three Rivers

7:00 PM - 9:00 PM

Piscataquog, Merrimack, Contoocook

ONGOING FUNDRAISING EVENTS

In addition to outbidding your peers during Thursday's Live Auction, there are three other ways you can support the New Hampshire Land Surveyors Foundation over the two days.

Our Silent Auction will open during lunchtime on Thursday and close following the Friday afternoon break. When you recycle your badge at the end of the day, check out the list of lucky recipients. If you can't stay for the entire event, please consider making arrangements for picking up your winning item.



Scott Boudreau, Vice President, and Seth Burnell, President-Elect will also be canvassing the conference, selling two types of tickets throughout Thursday and until noon on Friday. If you miss Scott & Seth, tickets will be available at the registration table throughout both days. Both drawings will be held during the Friday afternoon break. Please consider purchasing some of each!

For our 50/50 drawing, the winning ticket holder will receive half of the proceeds with the remaining half donated to the Robert G. Moynihan Education Fund. You need not be present to win; just write your name on the ticket you drop in the fishbowl.

50/50

Our mini-raffle features a table of smaller donated items, chosen on a first-come-first-served basis as ticket numbers are drawn. Sales of the mini-raffle tickets will benefit the Scholarship Fund.

The New Hampshire Land Surveyors Foundation is accepting donations, small, large, or in between, to be placed in the Live Auction, Silent Auction, or Raffle. Please consider donating an item or soliciting a favorite business of yours for a donation. To register an item, you can use this convenient online form: https://nhlsa.org/form.php?form_id=19&c=1

You may also fill out the enclosed auction form and either email it to Barbara ahead of time or drop it off with the item at the registration desk.

ENTERTAINMENT ★ SPONSORS

NHLSA 56th Annual

Meeting & Equipment Show

Comedy Show

Rob Steen has been doing comedy for 25 years. He began as a street performer at the age of 12 in Boston MA. Using his juggling and improv skills he decided to try Stand-Up! Since then, he has kept a full calendar of over 350 shows per year! Rob has also been featured on several TV shows including **The Late Show with Dave Letterman** where he was a frequent guest.



Rob is very high energy and will bring the whole audience together as a group with his unique style of crowd participation. His act is a mix of situations & observations that he has been in for the past 21 years of being an entertainer. He has been compared to Robin Williams due to his fast-paced delivery & quick wit, and is great at working with the crowd and making every show different. It is no wonder he is one of the most request comedians in the Northeast. He will keep you on your toes and laughing non-stop.

Rob pays great attention to detail and is able to adjust his act to nearly any crowd. This ability to adapt to any situation has made his shows very popular. He is great at incorporating the whole audience into his act. You never know where he will take you, but you will be laughing all the way. This is one act that is ready to BREAK OUT! You must see him LIVE!

Jody Sloane is a seasoned comedian with 15 years of experience turning trauma into punchlines and life's absurdities into laughter. A master of sarcasm and storytelling, she brings her "tragic optimist" outlook to stages across New England, finding humor in everything from motherhood and menopause to modern madness. Known for her sharp wit and relatable, unfiltered honesty, Jody's comedy dances between the ridiculous and the profound—proof that laughter really is a survival skill.



If you're ready to embrace the perversely hilarious, and you're not afraid to explore the comical underbelly of life, then Sloane is your guide. Get ready to indulge your inner imp and join Jody Sloane for a night of comedy that's delightfully twisted and wickedly entertaining.

HEB
ENGINEERS
Strengthening Community

- ◆ Thursday Continental Breakfast
Surveying and Mapping (SAM), LLC
- ◆ Thursday Morning Break
David M. O'Hara, LLS
- ◆ Thursday Lunch
Vanasse Hangen Brustlin, Inc. (VHB)
- ◆ Thursday Afternoon Break
Alfano Law Office, PLLC
- ◆ Thursday Reception
James Verra & Associates, Inc.
- ◆ Friday Continental Breakfast
GM2 Associates, Inc.
- ◆ Friday Morning Break
Bergeron Technical Services
- ◆ Friday Lunch
Arago Land Consultants, Inc.
- ◆ Friday Afternoon Break
Surveying and Mapping (SAM), LLC
- ◆ Past Presidents Breakfast
Maine Technical Source
- ◆ Parking for all attendees
Northam Survey, LLC
Jones & Beach Engineers, Inc.
- ◆ Wi-Fi (**JVA20k**) for all attendees
James Verra & Associates, Inc.
- ◆ Entertainment
HEB Engineers, Inc.

Thank You
to our Sponsors!

- ◆ 2026 Souvenir Calendar

Waypoint
TECHNOLOGY GROUP

PAST PRESIDENTS ASSEMBLY ★ WORKSHOPS ★ FRIDAY, DECEMBER 5th

NHLSA 56th Annual Meeting & Equipment Show

Friday's Sponsors



Past Presidents Breakfast

PAST PRESIDENTS ASSEMBLY BREAKFAST MEETING

The Past Presidents Assembly, chaired by immediate Past President Craig Bailey, will meet for a working breakfast and invites all Past Presidents to gather and partake in discussion of the following topics: The breakfast meeting will begin with electing a taker of minutes. **A group photo will take place at 7:50 AM sharp to allow anyone to attend a morning seminar.**

The agenda will include the following items (beginning at 8:00 am):

1. Call to order & Pledge of Allegiance
2. Roll call of those present for the record
 - a. Distribution of name tags
 - b. Introduction of VIP guests (NESS & Sponsor)
3. Review of Past Presidents Financial fund status
4. Discussion of current trends in the Association
 - a. Membership trends
 - b. Executive Committee staffing levels
 - c. Governmental issues the Association has been covering
5. Old Business
 - a. Approve 2024 minutes
6. New Business
 - a. Future Administrative Transition (Barb)
7. Adjournment

Please contact President Bailey prior to December 1st regarding any other topics for discussion at the breakfast.

Piscataquog Room

7:30 AM - 9:00 AM



Continental Breakfast

(6) Modern Approaches to GNSS Positioning

Raymond J. Hintz, Professor

GNSS surveying began with multiple receivers collecting the same satellites in a post processed mode to compute vectors (differential) between the receivers that enables coordinate computation if at least one occupied station has known coordinates. Then real-time kinematic (RTK) came along where the vector was computed in the field to generate coordinates. The use of permanent GNSS base stations changes the process both in post processed mode and in real time mode via Virtual Reference Station (VRS) or Max solution. The latest vendor technology in both post processed and real-time is Precise Point Positioning – Ambiguity Resolution (PPP-AR) which eliminates the need for differential vector type solutions. PPP-AR can run simultaneously with a conventional vector solution and the software will provide you with what is producing the best result.

8:00 AM - 12:00 PM
Pemigewasset Room

1.0 NH LLS CEUs

(7) Federal Flood Risk Management Standard (FFRMS)

Mark Condodemetrak, PE, LLS, NIPR
G.C. Engineering, Inc, President

What are the HUD and FHA requirements for FFRMS? How do you determine if your project is a critical or non-critical action? Who must comply with the new standards? How have the FFRMS requirements changed with the new administration? These are all questions the surveyor may need to answer when working on certain federal projects. In this module we will go over the regulations that created the FFRMS requirement, how to determine critical action and an overview of the 8-step decision making process for determining compliance.

Mark is President of G.C. Engineering, Inc., a full-service Engineering and Surveying company located in Laconia, NH. He graduated from Northeastern University with a Major in Mechanical Engineering and a Minor in Mathematics. Upon Graduating in 1996 Mark incorporated G.C. Engineering with his father George and began specializing in the National Flood Insurance Program. Mark is a Licensed Professional Engineer in NH, VT and ME, a Licensed Professional Land Surveyor in MA and NH and is a Licensed Insurance Producer. Along with Flood Determinations Mark also specializes in Calculating Base Flood Elevations, Watershed Analysis, Open Channel Flow Design, Elevation Certificates, Letters of Map Amendments (LOMA), Boundary Surveying and Expert witness testimony reports. He also sells Flood Insurance with the Davis & Towle Group to make sure that Lenders have the proper coverage for properties in a Special Flood Hazard Area. Mark is the proud father of three boys and lives in Laconia, NH with his wife Andrea, their cat Manny and dog Chester.



8:00 AM - 10:00 AM
Contoocook Room

0.50 NH LLS CEUs

WORKSHOPS ★ FRIDAY, DECEMBER 5th

NHLSA 56th Annual Meeting & Equipment Show

(8) NHDES Wetlands

Join us for an informative session with the Wetlands Bureau as they share updates on the ongoing reorganization and clarification of wetlands rules. This presentation will cover proposed changes currently in draft form, rules nearing finalization, and recently adopted rules. Whether you're involved in permitting, compliance, or conservation, this session will provide valuable insights into the evolving regulatory landscape.

Darlene Forst is a native of NH with an educational background in biological sciences and GIS. She has 30 years of environmental science experience in NH beginning with work in freshwater fisheries, and wetlands. After 20 + years working in shoreline and shoreland development regulation, she is currently the Administrator of the NHDES Wetlands Bureau.



- ◆ Explore how AI-assisted geospatial tools accelerate permitting and utility coordination.
- ◆ Recognize how surveyors can leverage integrated geospatial workflows to reduce risk, streamline design, and expand service capabilities.

Keywords

LiDAR, GIS, public right-of-way, digital walkouts, data integration, permitting, utility mapping, infrastructure design, safety, accuracy.

Adam is the Co-Founder and Senior Vice President of Strategic Accounts at AirWorks, a Boston-based geospatial technology company transforming how infrastructure is planned and designed through automation, GeoSpatial data, and advanced analytics. With deep roots in construction and field operations, Adam has spent his career bridging the gap between boots-on-the-ground experience and cutting-edge GeoAI.

8:00 AM - 9:00 AM
Merrimack Room

0.25 NH LLS CEUs

(9) Advancing Right-of-Way Safety and Design Efficiency with LiDAR and Geospatial Data Integration

Adam Kersnowski
Co-Founder & SVP of Strategic Accounts
AirWorks, Boston MA

As broadband and infrastructure projects surge across New England, the need for precise, accessible, and verified data within the public right-of-way's has never been greater. Misidentified utilities and incomplete mapping lead to costly delays, utility strikes, and extended permitting cycles. Surveyors, engineers, and GIS professionals are increasingly turning to modern digital walkouts, powered by LiDAR and geospatial data integration, to meet these challenges head-on.

This session explores how the fusion of LiDAR, aerial imagery, open-source datasets, and public GIS information enhances spatial accuracy and design confidence. By combining multiple data sources into a unified, high-fidelity digital environment, project teams can identify utilities and features early, improve coordination with permitting offices, and streamline plan preparation. The result is a more reliable record of what exists within the ROW, enabling safer construction, faster approvals, and smarter infrastructure development.

Drawing from real-world fiber and utility mapping projects, Adam will demonstrate how geospatial AI and LiDAR processing are redefining workflows once limited by field constraints, creating a bridge between survey precision and scalable, data-driven design.

Learning Objectives

- ◆ Understand how LiDAR enhances accuracy and positional tolerance for ROW mapping and digital walkouts.
- ◆ Learn methods for merging open-source, public, and private GIS datasets with high-resolution imagery and point clouds.

Starting from hands-on work in construction data collection, he saw firsthand the inefficiencies in how site data was gathered, processed, and used for design and permitting. That perspective shaped AirWorks' mission to automate the creation of design-ready maps from aerial imagery, LiDAR, and GIS datasets. Today, his focus centers on leveraging AI and geospatial data integration to identify utilities within public right-of-way's, reduce permitting delays, and improve design accuracy for broadband and infrastructure projects.

Under Adam's leadership, AirWorks has evolved from a data collection company into a full-scale analytics platform—helping engineers, surveyors, and municipalities turn raw data into actionable insight for safer, smarter, and more efficient infrastructure planning. Originally from Maine and now based in New Hampshire, Adam remains passionate about supporting the surveying and construction communities throughout New England as they embrace the next wave of digital transformation.

8:00 AM - 9:00 AM
Dartmouth Room

0.25 NH LLS CEUs

(10) 2025 NHDES Subsurface Bureau Update

David Aiton
Compliance and Outreach, NHDES Subsurface Bureau

An overview of recent changes in the NHDES Subsurface Systems Bureau focusing on the proposed revision to Env-Wq 1000 and how they relate to individual sewage disposal system and subdivision applications.

Dave is the Compliance & Outreach Supervisor for the Subsurface Systems Bureau of the New Hampshire Department of Environmental Services (NHDES). Prior to his role as a regional inspector and outreach specialist with NHDES, he worked for over 18 years in the civil engineering field for survey and engineering firms in New Hampshire's lakes region.

9:00 AM - 10:00 AM
Merrimack Room

0.25 NH LLS CEUs

WORKSHOPS ★ FRIDAY, DECEMBER 5th

NHLSA 56th Annual Meeting & Equipment Show

(11) Women in Surveying Roundtable

Cynthia Boisvert, LLS
Moderator

Join us as we discuss topics relevant to being a woman in a predominantly male field. This group was formed with the hope of making connections with other female Land Surveyors. We would like to set some goals this year and formalize a mission for our group, and discuss becoming involved in STEM schools, focusing on introducing young women to our profession.

Cynthia has been a NH Licensed Land Surveyor for 38 years, beginning her survey career in North Conway, NH, working for HEB Engineers and Burnell Land Surveying. Since 1980, she has been working in southern NH. Six years as VP of Survey Services at Cuoco & Cormier, Inc. and currently as President of Arago Land Consulting, LLC, located in Amherst NH. Cynthia has served the NH Land Surveyors Association, as Vice President, President Elect, President, Past President, and Publications Director, and is currently the Registry of Deeds Liaison. She has a BS in Environmental Design from the University of Massachusetts, Amherst.



9:15 AM - 11:15 AM
Dartmouth Room

0.50 NH LLS CEUs



Morning Break

(12) North East Surveying Societies (NESS Roundtable)

Craig T. Bailey, LLS #1001
Moderator

Join me and other North East State Presidents for an informal NESS meeting to continue our ongoing dialogue and initiatives. Regional issues such as metrics on membership and young surveyor groups are key to the success of all state societies and NSPS.

We'll discuss the challenges we've overcome during the last few years, and how we have been integrating hybrid participation, as remote participation clearly creates value for our memberships. In addition, we'll discuss whether or not to continue with the traditional hosting of NESS Conferences, or instead limit it to our ongoing NESS Roundtables.

Please feel free to contact me prior to the meeting at ctbailey@nhlsa.org.

9:30 AM - 12:00 PM
Piscataquog Room

0.50 NH LLS CEUs

(13) Making Your Job Easier with Real-Time GNSS Today

Harry Schultz
Bruce Bartels
Waypoint Technology Group

Course Objectives:

1. Be able to explain what Real Time Kinematic (RTK) is and how it's used.
2. Discuss opportunities within the surveying profession, whether public, private, large firm, or small firm, for using RTK
3. Explain the benefits and possible challenges of using RTK on jobs
4. Explain the differences in receiving RTK correction and the benefits/negatives

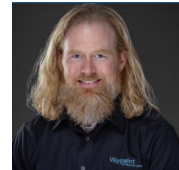
Course Summary:

This session will dive into all things about Real-Time Kinematic Surveying (RTK). We will start by going over what RTK means. Then we will go over the workflows where RTK shines and where it might not be the best to use. Then we will discuss the different types of RTK corrections and how to determine the best correction source/sources for that job. We will also discuss the best tips and tricks to achieve the best corrections as well as how to QA/QC those corrections. This course will be geared to all levels of experience using RTK.

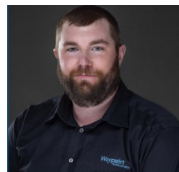
Course Outline:

- ◆ Introduction of Harry & myself (10 minutes +/-)
- ◆ What is RTK (30 minutes +/-)
- ◆ Going over RTK Workflows (40 minutes +/-)
- ◆ RTK Checks and Guidelines (30 minutes +/-)
- ◆ Wrap-up/ Q&A (10 minutes +/-)

Harry is the Vice President of Waypoint Technology. Since 1997, Waypoint Technology Group has been providing professional positioning solutions based on GPS/GNSS, optical/robotic and laser measurement technologies.



Bruce is the Geospatial Support Services Manager with Waypoint Technology Group, an authorized Trimble Geospatial & Mapping Distributor that services New York, New Jersey, and New England. In his current role, he coordinates all repairs as well as provides training, tech support, and sales assistance. Bruce has been working with Trimble equipment for 11 years, including 8 years in the survey industry.



10:15 AM - 12:15 PM
Contoocook Room

0.50 NH LLS CEUs

Remember to sign in/out for each session to receive continuing education units (1/4 CEU for each hour session attended). Attendees must attend entire session to receive full credit.

WORKSHOPS ★ FRIDAY, DECEMBER 5th

NHLSA 56th Annual Meeting & Equipment Show

(14) NHDES Alteration of Terrain

Amy C. Clark, P.E.

Explore final draft updates to the Alteration of Terrain (AoT) rules, Env-Wq 1500, including a new Permit-by-Notification process, expanded exclusions, and stream-lined permitting. Learn how these changes improve efficiency, support solar development, and clarify jurisdiction—without expanding regulatory reach.

Amy is the Bureau Administrator for the Alteration of Terrain Bureau at the New Hampshire Department of Environmental Services. She holds a bachelor's degree in civil engineering from Tennessee Technological University and a master's degree in civil engineering from the University of New Hampshire, specializing in Water Resource Engineering.



10:15 AM - 11:15 AM
Merrimack Room

0.25 NH LLS CEUs

(16) U.S.F.S. Tree Identification

Abby Heggenstaller

There is a rich diversity of tree species in New Hampshire, each with their own traits. This presentation will cover how to interpret those characteristics to identify trees. We'll discuss how to recognize trees using leaves, twigs, and bark, enabling attendees to identify trees in all seasons.

Abby is a forester with the White Mountain National Forest in New Hampshire. She grew up on a farm in Pennsylvania and graduated from the University of Vermont in 2017. Since then, she's worked in several states across the country with the U.S. Forest Service and has lived in New Hampshire for five years. Abby is passionate about forestry and dendrology and is excited to share her knowledge with others!



11:15 AM - 12:15 PM
Dartmouth Room

0.25 NH LLS CEUs

(15) AI for Surveyors: Practical Applications, Benefits, and Pitfalls

Ryan Fowler, LLS, PLS

Artificial Intelligence is rapidly transforming how surveyors collect, process, and present data. This one-hour session will introduce practical ways AI tools can be integrated into your daily workflow — from automating routine tasks and improving drafting efficiency to enhancing communication and project management. We'll explore real-world examples, discuss where AI adds real value, and highlight common pitfalls and ethical considerations to avoid. Whether you're new to AI or already experimenting, this class will help you understand what it can (and can't) do for your surveying practice.

Ryan is a Licensed Land Surveyor and Professional Land Surveyor in New Hampshire and Maine, and the Manager of JVA Surveyors, a mid-sized firm with offices in Portsmouth and Candia, NH. An Eagle Scout, New Hampshire Permitted Septic Designer, and Certified Floodplain Surveyor, Ryan brings over a decade of experience in the surveying industry. He is a past president of the New Hampshire Land Surveyors Association (NHLSA) and continues to be an active advocate for advancing professional standards and technology within the field.



11:15 AM - 12:15 PM
Merrimack Room

0.25 NH LLS CEUs

ARAGO
LAND CONSULTANTS, LLC

Lunch



(17) Exclusive Viewing of Exhibit Hall

This is a great opportunity to see some of the latest products and services the vendors have to offer. You will have the opportunity to see demonstrations, ask questions and perhaps make a purchase or two. You just may find that key piece of information, a helpful hint, or some new equipment that you were looking for to help you out with that tough project back at the office.

If you make a point to stop by each booth, the vendors will stamp your vendor card provided at sign in, and you will receive the 0.5 CEU credit for your time spent. See page 19 for a list of reserved exhibitors.

12:00 PM - 2:00 PM
Armory

0.50 NH LLS CEUs
With Vendor Card

Schedule Subject to Change -
Updates will be emailed, along with
reminders of upcoming deadlines.

Thank You!

SURVEY OLYMPICS ★ WORKSHOPS ★ FRIDAY, DECEMBER 5th

NHLSA 56th Annual Meeting & Equipment Show

Booth 8: Survey Olympics

Hosted by NH Young Surveyors Committee
Dan Begin, Co-chair

Get ready to test your skills, accuracy, and wit at the **Survey Olympics** — an indoor challenge hosted by the **New Hampshire Young Surveyors Committee (NH YSC)**!

Join us at **Booth 8**, where stations will be set up throughout the **Lobby and Armory**. Each game is simple... but not as easy as it looks! Compete in a series of fun, survey-themed challenges designed to put your precision and problem-solving to the test. But there's a twist — the events are secret until you arrive, so **no practicing ahead of time!**

Meet and connect with the **next generation of licensed professionals**, who will be manning each station and cheering you on. Complete all challenges during the **lunch period** for a chance to **win giveaways** and, most importantly, share some laughs with fellow surveyors.

Think you've still got it?

Step up, take the challenge, and see if you can earn your spot among the Survey Olympics champions!

Dan is a Senior Construction Manager at Surveying And Mapping (SAM) LLC, specializing in complex control networks, industrial construction surveys, and automated deformation monitoring. A graduate of Paul Smith's College and the University of Maine, he has a proven track record on high-impact projects like the Portsmouth Naval Shipyard DD2, the Hampton Seabrook Bridge and the Manchester Cemetery Brook Tunnel. He combines technical expertise with strong leadership and client communication. As Chair of the NH Young Surveyors Committee, Dan is also dedicated to mentoring and supporting the next generation of surveyors.

12:00 PM - 2:00 PM
Armory and Assembly

0.50 NH LLS CEUs

(18) Young Surveyors Roundtable

Dan Begin, LSIT

Please join your fellow Young Surveyors as we review our accomplishments from this past year, discuss ideas for the future, and cover an array of ongoing topics. We will discuss the recent interest in hosting in-person meetings in multiple regions once a month as well as compiling study material for the Professional Surveyor (PS) Exam. We will also be discussing our continued involvement in the national Young Surveyors Network, including the upcoming trip to Washington, D.C. Come prepared to share ideas and advice or just listen in on what is always an interesting assembly.

Our Young Surveyors Committee has been busy this year. Our monthly in-person meetings have led to five of our members becoming Surveyors In Training. We have compiled all of the reference materials one would need in order to study for the Fundamentals of

Surveying (FS) Exam and we offer it freely to anyone who may want to learn. We have also volunteered at New Hampshire Construction Career Days (NHCCD) with the goal of introducing the next generation of surveyors to the profession.

2:00 PM - 4:00 PM
Pemigewasset Room

0.50 NH LLS CEUs



**YOUNG
SURVEYORS
COMMITTEE**

New Hampshire Land Surveyors Association

(19) Developing the Next Generation of Surveyors

Mike Hammer, LLS

This engaging program is designed to examine the essential steps and collective efforts needed to cultivate the next generation of professionals in the field of surveying. The discussion begins by exploring the unique responsibilities that licensed surveyors assume in mentoring and training emerging professionals. Emphasis is placed on the importance of experienced surveyors not only in maintaining high standards within the industry, but also in fostering a culture of innovation and adaptability among new entrants.

Further, the program delves into the significant role company leadership plays in supporting professional development. Attendees will discover how effective organizational practices and supportive management can create productive learning environments within surveying firms. Attention is also given to the ways academic institutions are shaping their curricula to meet the evolving needs of the profession, ensuring that students are prepared for the demands of the modern workforce. The value of partnerships between colleges, universities, and surveying firms will be highlighted, showcasing how collaborative efforts such as internships, joint research, and curriculum development are advancing educational and professional outcomes.

Special consideration is given to the involvement of paraprofessionals, who are indispensable in supporting licensed surveyors and contributing to the overall strength of the profession. The program recognizes their vital role and discusses the various pathways available for career advancement, which can ultimately lead to a more inclusive and robust professional community.

Finally, the session explores strategies for building a sustainable and diverse workforce within surveying. This includes innovative approaches for attracting and retaining new talent, as well as the importance of implementing inclusive practices to ensure the long-term viability of the profession. By addressing these key areas, the program aims to provide attendees with actionable insights and to foster valuable connections that will help shape a strong and vibrant future for the surveying industry.

WORKSHOPS ★ FRIDAY, DECEMBER 5th

NHLSA 56th Annual Meeting & Equipment Show

Mike Hammer is the Survey Manager for VHB Bedford, adjunct faculty at NHTI, and formerly adjunct faculty at Wentworth Institute of Technology.



2:00 PM - 4:00 PM
Contoocook Room

0.50 NH LLS CEUs



(20) Reaching New Heights: Considerations for Working in a Modernized NSRS

Daniel Martin

When establishing heights for a project, how much thought is given to the level of accuracy (either absolute or relative) needed to support accomplish the intended goals? Do we consider the various sources of error that may accompany the tools and processes we use, hidden like an army in a trojan horse, or acknowledged as existing but generally ignored or considered to be insignificant? We will talk about potential issues when using the Modernized NSRS, specifically the new vertical datum, which has a definitional reliance on the use of GNSS, and the desire **or requirement** to provide results in legacy datums.

Dan has worked for the National Geodetic Survey since 2003 and has been the Northeast Regional Geodetic Advisor since 2015. As the Regional Advisor, he instructs local surveyors, state and municipal agencies, and the geospatial community at large on how to use and preserve the National Spatial Reference System and provides liaison between the National Geodetic Survey and the States of ME, NH, VT, MA, CT, RI, NY, and NJ, as well as other federal agencies. Prior to that he worked in the Route Survey and Geodetic Survey sections of the Vermont Agency of Transportation from 1988 through 2003 and held the position of Geodetic Program Supervisor for the Agency from 1999 through 2003. Dan is a Past President and Fellow Member of the American Association for Geodetic Surveying (AAGS), and an Honorary Member of the Vermont Society of Land Surveyors, the New Hampshire Land Surveyors Association, and the Maine Society of Land Surveyors.



2:00 PM - 4:00 PM
Merrimack Room

0.50 NH LLS CEUs

(21) Beyond the Demo: Real-World PointCloud Workflows with Cyclone 3DR and Reality Cloud Studio

Matt Brown
Director of Reality Capture
Maine Technical Source

We've all sat through tech demos that look impressive but leave us wondering, "How does this actually work in the real world?" This presentation takes you beyond the showcase and into real application.

Discover two powerful software solutions driving innovation in the Survey and AEC industries—tools that help transform raw point cloud data into meaningful deliverables. From virtual surveying and automated breakline extraction to floor flatness reports and deviation analysis, see how Cyclone 3DR and Reality Cloud Studio are redefining the workflow. Learn how these platforms make it easier than ever to capture, process, and share reality capture data—streamlining the journey from field to finish.

Matt is a seasoned professional with more than 25 years of experience in 3D laser scanning, surveying, and workflow optimization. With over 15 years dedicated specifically to the surveying field, he has developed deep expertise in both field and office operations, driving efficiency and precision across every stage of a project. Matt's background also includes extensive work in business development, project management, and technical training, where he is known for helping teams integrate advanced technology to streamline workflows and deliver exceptional results.



2:00 PM - 4:00 PM
Dartmouth Room

0.50 NH LLS CEUs

(22) Creating Base Maps and Preliminary Designs with Public Data

Doug Aaberg, PLS

This course covers utilizing available public data to create base maps and preliminary project designs from desktop applications. Learn to take advantage of free resources to get a jumpstart on your next project. Topics will include:

- Importing ESRI shape files.
- Importing NOAA Lidar Topographic data
- Importing Aerial Imagery
- Utilizing Critical Project Data
- Automated drafting tools
- Feasibility study of potential development
- Project data management

WORKSHOPS ★ HOTEL INFORMATION ★ NHLSA BOOKSTORE

NHLSA 56th Annual Meeting & Equipment Show

Douglas is a graduate from Mesa College, Grand Junction, Colorado. He is a licensed Professional Land Surveyor in the Commonwealth of Massachusetts (MA PLS #35382) and in the State of Colorado (CO PLS #27595). His career in the Land Surveying/Civil Engineering profession spans four decades. Having used Carlson Software exclusively since 1998, he is a recognized expert in applying the continually expanding capability of Carlson's programming to the everyday "workflow" of land surveyors and engineers. After owning and operating his own company for fifteen years, Doug now works directly for Carlson Software as their Survey/Civil Product manager. Besides being involved in development, he dedicates his time to consulting for both large and small land survey and engineering firms through onsite training, remote support and individually tailored documentation. He is also a Co-Author of "A Practical Guide to Carlson Software Fundamentals" (Cadapult Software Solutions), Author of "A Practical Guide to Carlson Survey" (Cadapult Software Solutions), and an Adjunct Professor of Land Surveying from 2007-2008 at Wentworth Institute of Technology in MA.

2:00 PM - 4:00 PM
Piscataquog Room

0.50 NH LLS CEUs

Remember to sign in/out for each session to receive continuing education units (1/4 CEU for each hour session attended). Attendees must attend entire session to receive full credit.

The DoubleTree by Hilton Manchester Downtown
700 Elm Street, Manchester, NH 03101
Phone: 603-206-4216

Room Rate: Single or Double \$159.00;
Triple \$169.00 + 8.5% tax/night.

ROOM RESERVATION DEADLINE:

Reservations must be received on or before **November 12, 2025**. At this date, the hotel will review reservation pick up for the event and release the unreserved rooms for general sale.

To reserve an overnight room, click here:
<https://www.hilton.com/NHLSA2025CONF>

OVERNIGHT RESERVATION OF ROOMS:

1. A block of guestrooms is reserved for use of the NHLSA Meeting/Show at group rates.
2. Individuals are responsible for securing their own reservations from this group

Identify yourself as attendees of the NHLSA Group in order to receive the discount.

1. Check in is at 3:00 pm and check out is 11:00 am.
2. Cancellation, late arrival or special arrangements should be made directly with the DoubleTree.

Directions to Hotel: The DoubleTree by Hilton Manchester Downtown is located one hour from Boston, the White Mountains, Lakes Region and the Seacoast.

If you need further information, check out the hotel website at: <https://www.hilton.com/en/hotels/mhmtndt-doubletree-manchester-downtown/hotel-location/>

NHLSA BOOKSTORE

Don't forget to stop by the traveling NHLSA Bookstore during the breaks and free time. This is the perfect time to save that 25% shipping & handling charge. Barbara and our devoted volunteers will have a mini bookstore set up in the assembly area and will be selling all of the books and merchandise that you can normally purchase on the NHLSA website. With the end of the year right around the corner, books and reference material may also be good tax deductible business expenses for you, and if you are an aspiring surveyor, some of these books will be invaluable to you in preparing for your exam!



In addition to the reference books, we also have items like brass discs, lapel pins, and belt buckles. The belt buckles (with proceeds going towards the Scholarship Fund) are numbered sequentially, so if your license number falls between 194-513, you may be able to get a buckle with your license number on it.

Check out all the items and prices in the NHLSA Bookstore list located in the 56th Annual Meeting Booklet!

DEPARTMENT OF ENVIRONMENTAL SERVICES

DES has approved credits for the following for septic designers & installers.

Six credits per day, providing you attend 6 hours of sessions, and you must attend the Subsurface Bureau Update session (10)

One (1) credit hour = seat time (length of workshop)

Reminder: Permitted Sewage Disposal System Designers & Installers and Natural Scientists—to receive credit, you must note your license number on the sign in/out sheets. Then send a copy to DES for credits.

Note: Natural Scientists credits are not pre-approved, use your best judgment when choosing your sessions.

Schedule Subject to Change dependent on attendance for each session. Updates will be emailed, along with reminders of upcoming deadlines.

**Thank you
for
attending!**

EXHIBITORS

NHLSA 56th Annual Meeting & Equipment Show

ARMORY

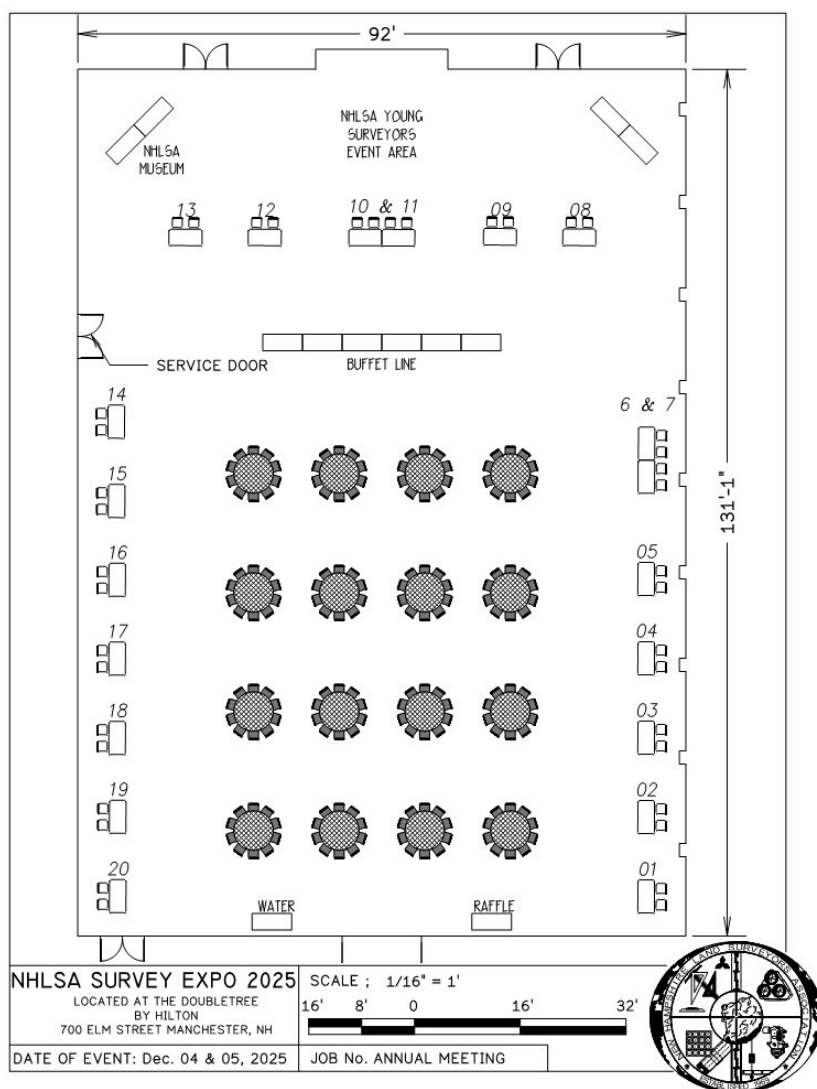


Exhibit Hours Set-Up

Installation

Thursday, December 4
6:00 AM - 10:00 AM
7:00 PM - 9:00 PM

Friday, December 5
6:00 AM - 8:00 AM

Dismantle

Friday, December 6
3:30 PM - 4:00 PM

Thank You
2025 Exhibitors

Exhibit Hall Activity

Continental Breakfast
Thursday & Friday
7:30 AM

Morning & Afternoon Break
Thursday & Friday
10:00 AM

Lunch w/Exhibitors

Thursday
Exhibitor's Welcome
3:00PM - 4:00 PM

Friday's Session 16:
**Exclusive Viewing
of Exhibits**
12:00 PM - 2:00 PM

Booth: Exhibitor

- ◆ 1: New England Laser & Transit Company
- ◆ 2: National Geodetic Survey
- ◆ 3: Bluesky Geospatial, a Woolpert Company
- ◆ 4: National Society of Professional Surveyors
- ◆ 5: WSP USA Geomatics
- ◆ 6 & 7: Spiller's
- ◆ 8: Young Surveyors Committee
- ◆ 9: Waypoint Technology Group, LLC
- ◆ 10 & 11: Maine Technical Source

- ◆ 12: Carlson Software
- ◆ 13: Eastpoint Lasers
- ◆ 14: Aerotas
- ◆ 15: CADNET Services, LLC
- ◆ 16: Advanced Onsite Solutions
- ◆ 17: Keystone Precision Solutions
- ◆ 18: CHC Navigation USA Corp
- ◆ 19: UMaine
- ◆ 20: Topcon Solutions Store

NHLSF BENEFIT AUCTION ★ THANK YOU FOR YOUR SUPPORT!

NHLSA 56th Annual Meeting & Equipment Show

BENEFIT AUCTION DONATION PLEDGE FORM

Don't miss the Fun, Food and Action at the NHLSA Benefit Auction!

Live Auction Thursday 6:00 - 7:00 PM (during the reception in the Armory)

Silent Auction ends Friday afternoon (winners announced end of day)

Use this form to make a donation to our Benefit Auction. Please complete the information below and return via fax, email or mail to **NHLSA** Office: 603-386-6856; info@nhlsa.org; PO Box 689, Raymond, NH 03077-0689.

Name / Company		Phone ()	
Address		Fax ()	
City	State	Zip	
Item	Fair Market Value \$		

DOOR PRIZE DONATION:

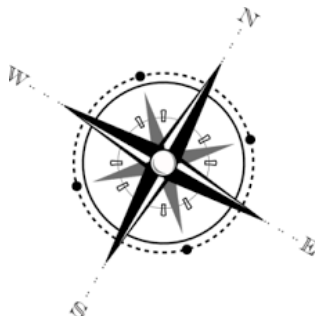
RAFFLE DONATIONS

Please include a brief description of the item (s) to be used by auctioneer. **List additional items on separate piece of paper.**

Small items welcome for mini-raffle, drawing during Friday afternoon break.
50/50 raffle held throughout both days, closes at 2:00pm Friday, drawing during afternoon break

Please drop off
your item and form
at the registration table.

Please help in our recordkeeping by using the form below
when donating an auction item, door prize, or raffle prize.
Thank you for your cooperation and generosity!



Thank you for your Support!!

2025 NHLSA CONVENTION REGISTRATION — MAIL-IN FORM

BEST VALUE

NHLSA 56th Annual Meeting & Equipment Show

Early Bird Full Registration before November 10th—
\$440/\$330; If received after the November 21st
final Deadline, add \$50

(✓) () LS () Associate () Affiliate () Student () Non-Member (add \$150 to registration)

Name			Guest Name		
Company			Phone ()		
Address			Email Address		
City	State	Zip	Name on Badge		

Member* (✓) () NHLSA () CALS () MALSCE () MSLS () RISPLS () VLS () NYSAPLS

*Member includes all Northeast State Societies (If member in multiple states, check home state)

#	REGISTRATION	Member Early Bird	After Nov. 10th	TOTAL
	Full Registration - LLS (see below)	\$440.00	\$500.00	\$
	Full Registration - Tech (see below)	\$330.00	\$390.00	\$

*** Non-Member (add \$150 to registration) ***

	Thu Only (see below) - LLS	\$340.00	\$
	Thu Only (see below) - Tech	\$280.00	\$
	Thu All Day (see below) - LLS	\$370.00	\$
	Thu All Day (see below) - Tech	\$310.00	\$
	Fri Only (see below) - LLS	\$340.00	\$
	Fri Only (see below) - Tech	\$280.00	\$
	Banquet & Entertainment Only or Additional Tickets	\$65.00	\$
	Thu or Fri Lunch Ticket Only (includes breakfast & breaks)	\$50.00	\$
	Annual Meeting—please check for handout purposes	N/C	\$ N/C
	Past Presidents' Breakfast—RSVP REQUIRED	N/C	\$ N/C

Thursday All Day—includes workshops, continental breakfast, breaks, lunch, reception, banquet & entertainment.

Thursday & Friday Only—includes workshops, continental breakfast, breaks, lunch, & equipment show.

Total Payment Due \$

Cancellation Policy

Written cancellation request must be postmarked 10 days in advance of Nov. 21st for 100% refund.

Receive 20%* off for five (5) or more members or employees from the same company

Register all employees on website together in a single order. Choose option to bypass payment and request a discounted invoice.

Included in Full Registration

- ◆ Two Days of Workshops with CEUs
- ◆ Continental Breakfast (2)
- ◆ Morning & Afternoon Breaks (2)
- ◆ Lunch (2)
- ◆ Reception
- ◆ Banquet & Entertainment Equipment Show



Hotel Reservation Deadline

DoubleTree by Hilton Downtown
700 Elm Street
Manchester, NH 03101
603-206-4216

November 12, 2025

Identify Affiliation with NHLSA

<https://www.hilton.com/NHLSA2025CONF>

Method of Payment

Check (payable to NHLSA) () CHECK #

To pay by credit card, instead of using this form, please register on the website at:

<https://nhlsa.starchapter.com/meetinginfo.php?id=45>

or call Barb for assistance.

- ◆ All registrations must be accompanied with payment
- ◆ Reservations cannot be taken by phone.
- ◆ **Send both pages**
- ◆ **Only one person and guest (members are not guests) per registration form**
- ◆ Make copies if needed

Mail Form and Check

New Hampshire Land Surveyors Association (NHLSA)
PO Box 689

Raymond, NH 03077-0689

Phone: 603-895-4822

Email for inquiries: info@nhlsa.org

Website for brochure or to register: <https://nhlsa.starchapter.com/meetinginfo.php?id=45>

WORKSHOP SELECTION

NHLSA 56th Annual Meeting & Equipment Show

WORKSHOPS

Thursday, December 4, 2025—2.0 CEUs

✓	#	Title · Room · Times · Continuing Education Units
	1	Professional Track: GIS Technology for Surveyors · Pemigewasset Room · 8:00 AM - 10:00 AM
	2	Technician Track: The Fundamentals of Surveying (FS) Exam · Merrimack/Contoocook Rooms · 8:00 AM - 10:00 AM
	3	Technician Track: Navigating a Geospatial Career · Pemigewasset Room · 10:15 AM - 12:00 PM
	4	Professional Track: Positional Tolerance From All Forms of GNSS Measurement · Merrimack/Contoocook Room · 10:15 AM - 12:00 PM
	5	Professional & Technician Track: The Great LiDAR Wave · Pemigewasset Room · 1:00 PM - 3:00 PM

Friday, December 5, 2025

	6	Modern Approaches to GNSS Positioning · Pemigewasset Room · 8:00 AM - 12:00 PM · 1.0 CEUs
	7	Federal Flood Risk Management Standard (FFRMS) · Contoocook Room · 8:00 AM - 10:00 AM · 0.50 NH CEUs
	8	NHDES Wetlands · Merrimack Room · 8:00 AM - 9:00 AM · 0.25 NH CEUs
	9	Advancing Right-of-Way Safety and Design Efficiency with LiDAR · Dartmouth Room · 8:00 AM - 9:00 AM · 0.25 NH CEUs
	10	2025 NHDES Subsurface Bureau Update · Merrimack Room · 9:00 AM - 10:00 AM · 0.25 NH CEUs
	11	NE Women in Surveying Roundtable · Dartmouth Room · 9:15 AM - 11:15 AM · 0.50 NH CEUs
	12	Northeast Surveying Societies (NESS) Roundtable · Piscataquog Room · 9:30 AM - 12:00 PM · 0.75 NH CEUs
	13	Making Your Job Easier with RTK Today · Contoocook Room · 10:15 AM - 12:15 PM · 0.50 NH CEUs
	14	NHDES Alteration of Terrain · Merrimack Room · 10:15 AM - 11:15 AM · 0.25 NH CEUs
	15	AI for Surveyors · Merrimack Room · 11:15 AM - 12:15 PM · 0.25 NH CEUs
	16	U.S.F.S. Tree Identification · Dartmouth Room · 11:15 AM - 12:15 PM · 0.25 NH CEUs
	17	Exclusive Viewing of Exhibit Hall · Armory · 12:00 PM - 2:00 PM · 0.50 NH CEUs with submitted vendor card
	18	Young Surveyors Roundtable · Pemigewasset Room · 2:00 PM - 4:00 PM · 0.50 NH CEUs
	19	Developing the Next Generation of Surveyors · Contoocook Room · 2:00 PM - 4:00 PM · 0.50 NH CEUs
	20	Reaching New Heights · Merrimack Room · 2:00 PM - 4:00 PM · 0.50 NH CEUs
	21	Beyond the Demo: Real-World PointCloud with Workflows · Dartmouth Room · 2:00 PM - 4:00 PM · 0.50 NH CEUs
	22	Creating Base Maps and Preliminary Designs with Public Data · Piscataquog Room · 2:00 PM - 4:00 PM · 0.50 NH CEUs

Reminder: Badge & meal tickets required for all events!

Would you like a hardcopy 56th Annual Meeting Booklet? YES ☐ NO ☐

Would you like a 2026 Souvenir Calendar? YES ☐ NO ☐

CONVENTION REGISTRATION

IMPORTANT—Please help our speakers plan their handout material by filling out which workshops you plan to attend.

Please fill out both sides of the two-page registration form completely, and mail with payment to NHLSA. If paying by credit card, please register on the website.

EARLY BIRD FULL REGISTRATION—Save \$60 by registering before November 10th!

Thank You 2025 Presenters