

New Hampshire Land Surveyors Association

49th Annual Meeting & Equipment Show











December 6-7, 2018

Courtyard Marriott Grappone Conference Center

70 Constitution Avenue, Concord, NH



PROGRAM AT A GLANCE

NHLSA 49th Annual Meeting & Equipment Show

Thursday December 6, 2018

2.0 CEUs for session 1

7:30 AM

Registration Desk Open (Pre-function Area)

Rising Sun Continental Breakfast

(Pre-function Area)

REGISTRATION-PRE-FUNCTION AREA

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)

Assorted breakfast pastries and whole grain and gluten free toasting breads; assorted jellies, preserves, and butter; Stonyfield assorted yogurt, fresh sliced seasonal fruit; locally roasted organic coffee, decaf and Tazo organic assorted teas; orange and cranberry juices

(Salon A) 8:00 AM—10:00 AM Session 1: Professional Ethics

10:00 AM-10:15 AM

Classic Midmorning Break (Pre-function Area)

Whole fresh fruit; assorted granola bars (GF); locally roasted organic coffee, decaf and Tazo organic assorted teas; assorted soda and bottled water

10:15 AM-12:00 PM

Session 1: continued

12:00 PM-1:00 PM

Lunch Buffet (Salon A)

Salad and Pizza: Caesar salad; Antipasto salad; Edamame bean salad; Cheese pizza; Pepperoni pizza; Vegetable pesto Pizza; (Gluten free crust available) Assorted cookies and brownies; assorted soda and water

1:00 PM-2:15 PM

Session 1: Continued

2:15 PM-2:30 PM

The Health Break (Pre-function Area)

Vegetable crudité with buttermilk ranch dressing; tzatziki sauce and hummus; baked pita chips and bagel chips; whole fresh fruit; dried fruit and nuts; strawberry, pineapple, and mixed berry smoothies; Glaceau vitamin water & Minute Maid juice; locally roasted organic coffee, decaf & Tazo organic assorted teas

2:30 PM-3:30 PM

Session 1: continued

3:30 PM-4:00 PM

Seminar wrap-up, Q&A, & Committee Meetings

4:00 PM-6:00 PM

Business Meeting, Awards (Salon A)

6:00 PM-7:00 PM

Reception

Hors d'oeuvres: Asian meatballs in sweet Thai chili sauce; Crudité of chilled vegetables served with assorted dips and spreads; Domestic and imported cheese display served with crackers, nuts and fruit garnish

7:00 PM-9:00 PM

Banquet (State Rooms)

Entrée Choices: Roast Prime Rib, au jus, parmesan rose, and chef's seasonal vegetable; OR Free Range Chicken Statler, chicken stuffed with coriander, carrot and potato, bell pepper jus, saffron rice, and chef's seasonal vegetable; OR Baked Stuffed Scrod, shrimp and lobster seafood stuffing, creamed sherry sauce, au gratin potato, chef's seasonal vegetable; includes New England clam chowder, house salad with romaine, spring mix, cherry tomatoes, croutons, cucumbers, carrots, and house Italian and Ranch dressings, Dessert: chocolate buttercream cake; locally roasted organic coffee, Decaf, and Tazo herbal teas

Entertainment: Foundation Benefit Auction featuring Terry Eldredge.

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SILENT AUCTION

The silent auction is back! See page 6 for details.

PROGRAM AT A GLANCE

NHLSA 49th Annual Meeting & Equipment Show

Friday December 7, 2018

7:30 AM

- Registration Desk Open (Pre-function Area)
- Rising Sun Continental Breakfast
- (Exhibit Hall) Same as Thursday

7:30 AM-9:00 AM

Past Presidents' Breakfast (Pierce Room) New Englander: orange & cranberry juice, freshly sliced assorted fruit, scrambled eggs, home fried potatoes, house seasoned bacon, Stonyfield assorted yogurts, pot of oatmeal with brown sugar and raisins, fresh baked morning pastries, whole grain and gluten free toasting breads, assorted jellies, preserves and butter, locally roasted organic coffee, decaf and Tazo organic assorted teas

8:00 AM-4:00 PM

Exhibit Hall Open (Salon A/B/C)

Concurrent Sessions

- 8:00 AM-10:00 AM
- Session 2: Counting Down to 2022 (Merrimack Room)

8:00 AM-9:00 AM

 Session 3: Pushing Back - A Tale of Three Towns (Concord Room)

8:00 AM-9:00 AM

 Session 4: The Compass as a Surveyor's Tool (Capital Room)

9:00 AM-12:00 PM

 Session 5: Subsurface Systems Bureau Update (Concord Room)

9:00 AM-10:00 AM

 Session 6: Small Business Compliance 101 (Capital Room)

9:00 AM-10:00 AM

Session 7: NESS Roundtable (Pierce Room)

10:00 AM-10:15 AM

Classic Midmorning Break (Exhibit Hall)
Same as Thursday

10:15 AM-11:15 AM

 Session 8: Ethics & Standards (Merrimack Room)

10:15 AM-12:15 PM

 Session 9: GIS Beyond the Acronym (Capital Room)

REGISTRATION—**PRE-FUNCTION AREA**

10:15 AM-11:15 AM

 Session 10: New England Surveying Women (NESW) Roundtable (Pierce Room)

11:15 AM-12:15 PM

 Session 11: New Survey Tools & LiDAR Opportunities for Transportation Projects (Merrimack Room)

11:15 AM-12:15 PM

 Session 12: Young Surveyors Roundtable (Pierce Room)

12:00 PM-1:30 PM

Lunch Buffet (Salon A/B/C)

Concord's Favorite: House salad; chef's soup de jour; Warmed rolls and butter; Grilled flank steak with Madeira onion sauce; Garlic crusted herb pork loin; Chef's seasonal starch and vegetable; assorted desserts; freshly brewed organic coffee, decaf, and Tazo organic assorted teas; assorted soda and water

Concurrent Sessions Continued

12:00 PM-2:00 PM

 Session 13: Exclusive Viewing of Exhibit Hall (Salon A/B/C)

2:00 PM-4:00 PM

 Session 14: Surveying in Floodplains (Merrimack Room)

2:00 PM-4:00 PM

 Session 15: Wetlands Bureau and Shoreland Program Legislative Updates (Concord Room)

3:00 PM-3:15 PM

Afternoon Stretch (Exhibit Hall)

Cookies, cookies; cookies: Freshly baked chocolate chip, cranberry white chocolate chunk, double chocolate, oatmeal raisin cookies; ice cold milk; assorted soda & water

2:00 PM-4:00 PM

 Session 16: Subsurface Utility Mapping (Capital Room)

2:00 PM-4:00 PM

 Session 17: Land Surveying and Civil Engineering Success Stories - followed by Floodplain Roundtable (Pierce Room)

NOTE: Session 14 and 17 will be presented in concert. (see note at end of each session)

	NHLS	A 49 th Annua	l Workshop	Schedule		
	Courtyard Mari	riott Grappone	Conference Ce	enter - Concord	I, NH	
REGISTR	ATION: 7:30 AM	D	ecember 6, 201	8	Pre-function Area	
Salon A	2.0 CEUs	Sess	8:00 AM - 4:00 PM			
Sign-in/ou	ut to receive continui (r	•	1/4 ceu will be award ession to receive fu		ssion attended)	
REGISTR	ATION: 7:30 AM	D	Pre-function Area			
TIMES	Salon C	Merrimack Room	Concord Room	Capital Room	Pierce Room	
7:30 AM	- (Continental Break	fast in Exhibit Hal	I	Past Presidents Breakfast 7:30 - 9:00 am	
8:00 AM 8:30 AM	-	Session 2: 8:00 - 10:00 am	Session 3: 8:00 - 9:00 am Pushing Back - A Tale of Three Towns	Session 4: 8:00 - 9:00 am The Compass as a Surveyor's Tool		
9:00 AM 9:30 AM	OPEN FOR LUNCH & EXHIBITORS	Counting dow n to 2022		Session 6: 9:00 - 10:00 am Small Business Compliance 101	Session 7: 9:00 - 10:00 am NESS Roundtable	
10:00 AM	-	BREAK	Session 5:	BREAK	BREAK	
10:30 AM		Session 8: 10:15 am - 11:15 am Ethics & Standards	9:00 am - 12:00 pm Subsurface Systems Bureau Update	Session 9: 10:15 am - 12:15 pm	Session 10: 10:15 - 11:15 am NE Surveying Women Roundtable	
11:00 AM 11:30 AM	-	Session 11: 1:15 am - 12:15 pm New Survey Tools		GIS Beyond the Acronym	Session 12: 11:15 - 12:15 pm Young Surveors Roundtable	
12:00 PM 12:30 PM 1:00 PM	Lunch 12:00 pm -1:30 pm Salon A/B/C	Session 13: Salon A/B 12:00 pm - 2:00 pm Viewing of Exhibit Hall				
1:30 PM	_		Ū			
2:00 PM 2:30 PM		Session 14:	Session 15: 2:00 - 4:00 pm	Session 16:	Session 17: 2:00 - 4:00 pm Land Surveying and Civil Engineering Success Stories - follow ed by Floodplain Round	
3:00 PM	OPEN FOR LUNCH & EXHIBITORS	2:00 - 4:00 pm Surveying in Floodplains	NH Wetlands and the NH Shoreland Protection Act Update	2:00 - 4:00 pm Subsurface Utility Mapping		
3:30 PM	4				Table	
4:00 PM	-	DEDADTMENT				
4:30 PM		DEPARTMENT OF ENVIRONMENTAL SERVICES DES has approved credits for septic designers & installers. (see page 12 and 18)				
5:00 PM			l ificates will be ma			

SEMINAR* THURSDAY, DECEMBER 6th

NHLSA 49th Annual Meeting & Equipment Show



(1) Professional Ethics

Robert Dahn, PS

The Professional and Ethics, explores the ethical roles and responsibilities of the surveying professional in modern practice. Included is a brief introduction to the history and the evolution of ethics. The talk will cover the relationship between surveying and its allied professions, as well as the duties and obligations professionals owe to their clients and the public at large. We will review and discuss the Code of Ethics contained in the New Hampshire Code of Administrative Rules Board of Licensure for Land Surveyors. How professional surveyors incorporate ethics into our daily practice and our lives in general is a large part of why surveying is among the oldest of professions. Ethics by its nature is unique to every individual regardless of profession or practice and this seminar intends to encourage an interactive and reflective exchange among all attendees.

Bob Dahn Robert Dahn, is a Principal Surveyor and managing partner at Meehan & Goodin, in Manchester, Connecticut. He is a Past President of the National Society of Professional Surveyors and the Connecticut



Association of Land Surveyors (CALS). He has served as the CALS Legislative Committee Chair for over twenty-six years. He has served as a Trustee of the National Society of Professional Surveyors Foundation for fourteen years. Bob has presented seminars on a variety of topics including, state and national legislative issues, national and state professional standards of practice, codes of ethics for professionals, understanding and using surveys for zoning enforcement officials, Nulman v. Four Twenty Corp. a case study about a construction project gone awry and business issues affecting surveying.

Irene "Grace" Garvey

During this workshop, Grace Garvey will take us from the very basics of how to define professional ethics, to a working knowledge and understanding of ethical concepts and their applications in your line of work. The workshop discussion will include ways in which practicing under a code of ethics can help professionals work more effectively with clients, fellow contractors, and agencies and help to avoid potential pitfalls. A review of rules of behavior, legal definitions, general codes, and of specific professional codes of ethics will be included. Small group exercises will be a part of this workshop: this will involve lively discussions using fictional scenarios.

Ms. Garvey has a dual career: she is a professional neutral facilitator for consensus building processes, strategic planning initiatives, project and process development, and difficult conversations. She also has over 25-years of



experience as an environmental professional. Since 2012, Grace has used her facilitation skills and her experience working on environmental issues to guide conversations and facilitate workshops specific to environmental professional ethics.

Panel Discussion

The panel will consist of a few licensed land surveyors from New Hampshire and Grace Garvey. Ethics questions will be formulated and asked of the panel to expand upon. The panel will be moderated by Education Director, Darren J. Hardy, LLS.

Darren is a multiple state licensed survey professional with a survey career that spans more than 20 years, with the last 20 years being with WSP. He has his Bachelor of Science in Survey Engineering from the University of New Brunswick. He has a significant amount of experience in conducting surveys for a number of transportation



agencies on a wide variety of projects in the Northeast United States. His surveys support design and construction projects and he understands the complex nature of conducting surveys for transportation infrastructure projects. He oversees the survey operation at WSP and recently has been instrumental with the education and introduction of 3D Laser Scanning and UAS to federal, state, and municipal agencies demonstrating the benefits of using this technology as a survey tool for design, inspection, and construction projects.

8:00am-4:00pm (Salon A) 2.0 NH LLS CEUs

SPECIAL EVENTS ★ THURSDAY, DECEMBER 6th

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NHLSA COMMITTEE MEETINGS

I welcome all Committee Chairs the opportunity to meet with your committee members for this brief period before the Annual Business Meeting.

Thursday, December 6, 2018 Salon A

3:30 PM - 4:00 PM

NHLSA ANNUAL BUSINESS MEETING, AWARDS, & INSTALLATION CEREMONY

The New Hampshire Land Surveyors Association is wrapping up the year at our 49th Annual Meeting and Equipment Show. Everyone is invited to attend our Annual Meeting where important agenda topics will be addressed. Business includes an update on the website, proposed bylaw amendments, and the NSPS dues. We look forward to seeing you all there.

Timothy S. Mallette, LLS President

Salon A

4:00 PM - 6:00 PM

NHLSA RECEPTION WITH HORS D' OEUVRES, CASH BAR, AND NHLSF RAFFLE

Our annual business meeting will install the officers for our 50th year. If elected, I will be your new President for our 50th year and invite you to join me for our evening activities. Our reception, with hors d'oeuvres and cash bar, will again feature our 50/50 raffle. Eric Mitchell, Vice President, and I will be canvassing the room selling tickets throughout Thursday and Friday until noon. The winning ticket will be drawn Friday during the afternoon break.

J. Corey Colwell, LLS President-Elect

Pre-function Area

50/50

6:00 PM - 7:00 PM

NHLSA AWARDS BANQUET, NHLSF LIVE BENEFIT AUCTION

Now that everyone has warmed up with a casual atmosphere of mingling with colleagues, and hopefully not spending all of your money on raffle tickets and saved some for the possible bidding wars of the NHLSF Live Auction. Terry Eldredge is planning to join us and continue his lively and fun hosting duties.

I invite you to join me for the Awards Banquet, enjoy a good meal, continued conversation with friends, or someone you have yet to meet, and the fun will continue during dessert when the auction begins with the assistance of our generous volunteers. The New Hampshire Land Surveyors Foundation is accepting donations, small, large, or in between. This year, the proceeds will benefit the 50th Anniversary Celebration, you can bet it will be an educational experience! We can always expect a wide variety of items that will interest all banquet attendees, members, and guests alike. If you have any items that you would like to donate to the auction, please fill out the enclosed auction form and email it to Barbara ahead of time or drop it off with the item at the registration desk.

And, for the winning Map Contest entries, 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.

Since the 50/50 raffle extends through two days, you need not be present to win, just write your name on the ticket you drop. The winning ticket holder will receive half of the proceeds with the remaining half donated to the 50^{th} Anniversary Celebration.

Eric C. Mitchell, LLS Vice President

State Rooms

7:00 PM - 9:00 PM



Eric Mitchell is also organizing a Marine Toys for Tots donation campaign during the Annual. New toys (unwrapped) and cash donations will be accepted at our event. Thank you for any contribution you can make towards this effort!



The 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.

If you have an item for the auction but will not be able to attend, please contact Barbara Cormier or Eric Mitchell and they will make sure it gets on the auction block.

Thursday December 6 - Friday, December 7, 2018

PAST PRESIDENTS ASSEMBLY & WORKSHOPS **★** FRIDAY, DECEMBER 7th

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PAST PRESIDENTS BREAKFAST

Timothy Mallette, incoming Chair, welcomes all Past Presidents to attend and partake in the discussion on the following topics:

- Elect a taker of minutes
- Report on discretionary fund
- Participation of Past Presidents in the 50th Anniversary
- NSPS News and Views and related benefits of membership
- Brief discussion on young surveyors groups across the New England region

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

Pierce Room

7:30 AM - 9:00 AM

(2) Counting Down to 2022

Daniel Martin, LS

In 2022, NGS will be replacing the US horizontal and vertical datums (NAD 83 and NAVD 88). In this workshop we will review the need and process for these changes, and the progress made over the last year. We will then discuss what activities are being undertaken to ensure a smooth transition to include new State Plane Coordinates, GPS on BM for Geoid18 the new vertical transformation tool, NGS Conversion and Transformation tool (NCAT), and the 2018 Multi-Year CORS Solution.

Dan works for the National Geodetic Survey and is the Northeast Regional Geodetic Advisor. 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. 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. In 2003 Dan began his career with the National Geodetic Survey as the Vermont State Geodetic Advisor. Dan is a Past President and Fellow Member of the American Association for Geodetic Surveying (AAGS), he is also a member of the Vermont Society of Land Surveyors and the New Hampshire Land Surveyors Association.

8:00 AM - 10:00 AM 0.50 NH LLS CEUs Merrimack Room

(3) Pushing Back - A Tale of Three Towns

Paul J. Alfano, Esquire Alfano Law Office, PLLC

I am presenting three situations where towns may have mischaracterized the status of a road.

In one case (still unresolved), the town claims a road is Class VI, whereas I am quite sure it was discontinued outright. I will go into the research we did which led me to that conclusion.

In another case, the town tried to tell my client he didn't have the right to clear certain trees to get the sight clearance needed for subdivision approval. Come to find out, the land on which the trees are located are within the public highway, and thus the town's responsibility. This one is a tale of reading between the lines of an earlier approval concerning the road.

In the third, the town claimed to own a road when they simply had accepted it. This one is pretty basic, but is a good reminder of the difference between fee title and rights of the public use to a use a public road.

Paul is a recognized authority on New Hampshire road law, including paper streets, discontinuances, and ownership disputes. He has written leading articles on the subject and delivered numerous lectures over the past twenty-five years, and maintains a steady stream of blogs and shorter articles on these topics. His law firm's website is an unparalleled source of information on public and private roads.

8:00 AM - 9:00 AM Concord Room 0.25 NH LLS CEUs

(4) The Compass as a Surveyor's Tool (Tips for Use and Warnings)

David R. Noyes, LLS #84; LPF #84

We all know what a compass is and the earthly factors that cause it to function. It's a small non-ferrous case with a magnetic needle balanced on a pivot point that generally points in the direction of the earth's magnetic field. It's a directional tool.

I've used a compass (of many different manufacturers) for over 60 years and I have recommendations and cautions that may help you use it better.

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After graduating from Belmont HS in 1956, **David** studied Forestry at UNH and received a BS in 1960 and an MS in 1962. His career began at the US Forest Service in Montana and Oregon between 1957 and 1963. From there he was employed with UNH between 1963 and 1966, when he became self-employed. David served on the Northwood Planning



Board from 1968-1969; the Epsom Zoning Board from 1971-1980; the Epsom Budget Committee from 1974-1982; the Epsom Conservation Commission from 1979 -1983; and the Advisory Commission of the NH Department of Resources & Economic Development from 1985-1996. David also has extensive experience with case studies and has presented many over the years.

8:00 AM - 9:00 AM Capital Room 0.25 NH LLS CEUs

(5) Subsurface Systems Bureau Update

Robert A. Tardif, P.E., Administrator Subsurface Systems Bureau

Besides the discussion on the recent changes to the Subsurface System Bureau's rules. Rob's presentation will also include a discussion on Lot Line Adjustments.

Participants will be awarded 3 credit hours for Subsurface Systems Bureau continuing education

requirements for permitted sewage disposal system designers and installers.

Rob graduated from the State University of New York at Buffalo with a B.S. in Civil Engineering and received his P.E. license in 1999. He started working for the New Hampshire Department of Environmental Services in 1992. Rob



initially worked in Hazardous Waste Compliance (compliance work), then Solid Waste Management (permitting), and Residuals Management (permitting). Rob started in the Subsurface Systems Bureau in 2002 as the Construction Section supervisor. In June of 2009, Rob took over the duties of Subsurface Systems Bureau administrator.

9:00 AM - 12:00 PM Concord Room 0.75 NH LLS CEUs

(6) Small Business Compliance 101

Paula Mathews

Her Small Business Compliance 101 workshop is designed to educate small businesses about those elements necessary to bring them into compliance with Federal, State, & OSHA regulations, based on the size of their business. **Paula** brings more than 40 years of experience to the table including 14 years as a Human Resource Manager for a major corporate division of 260 employees and over 17 years as a self-employed Human Resource/Safety consultant. She has an undergraduate degree in Education and is certified to train in forklift safety and other industry



programs. A frequent speaker at conferences, she has been an instructor for Hannah Grimes since 2010 and is currently offering free 1:1 coaching hours through them. She also offers free 1:1 coaching hours through the Greater Hernando Chamber of Commerce during the first quarter of each year when she is in her Florida office.

9:00 AM - 10:00 AM Capital Room 0.25 NH LLS CEUs

(7) North East Surveying Societies (NESS) Roundtable

Timothy S. Mallette, LLS #955 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 the NSPS.

We will follow-up on outstanding topics from the last meetings, including for example, the need for an official repository for NESS documents.

Please feel free to contact me prior to the meeting at <u>timothy.s.mallette@nhlsa.org</u>.

9:00 AM - 10:00 AM Pierce Room 0.25 NH LLS CEUs



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(8) Ethics and Standards

Eric C. Mitchell, LLS

Eric volunteered to form an ad-hoc committee to review the NHLSA Ethics and Standards which were last revised in 1989.

At the recent Case Studies seminar, he led an open discussion with NHLSA members on items that need to be updated on the current NHLSA 1989 Ethics and Standards. He asked several questions about our ethical standards and several members made comments. The committee will continue their work at this one hour session to offer more members their input before a presentation is made to the Executive Committee, for tentative approval of the new NHLSA Ethics and Standards at our Spring Quarterly meeting in 2019.

Eric is the President of Eric C. Mitchell & Associates, Inc. (**ECM**), a Land Survey, Engineering and Land Planning firm in Bedford, New Hampshire. **ECM** has been performing land surveys, subdivisions, commercial site plans and environmental permitting since 1982. Eric has a BS in Civil Engineering from the University of New Hampshire and is a Licensed



Land Surveyor, Certified Wetlands Scientist and Licensed Septic System Designer in the State of New Hampshire. He is currently the Vice President and past Director of the New Hampshire Land Surveyor Association and a member of the National Society of Professional Surveyors.

10:15 AM - 11:15 AM Merrimack Room 0.25 NH LLS CEUs

(9) GIS Beyond the Acronym

Rick Ladd, Todd Carlson & Doug Aaberg

Come learn about GIS, Data Collection, and Drone tools from CADNET and Carlson Software. Topics will include creating surfaces and contours from drone photogrammetry, Importing data from GIS systems in CAD software, and data collection using SurvPC and connections to GIS systems.

Rick is the owner of CADNET Services, LLP, a CAD and IT consulting firm located in Manchester NH. Rick Ladd has been a member of NHLSA in one capacity or another since 1988, and CADNET is currently a sustaining member.



Todd is the Director of Marketing and New England Sales Manager for Carlson Software working out of Carlson's main development office in Watertown, MA. Prior to his current role, Todd worked 10 years in tech support, training, and product development for the construction estimating and data prep package Carlson Takeoff.

Doug is a licensed Professional Land Surveyor in the states of Massachusetts and Colorado and has become an expert in applying the constantly expanding world of Carlson's programming to the everyday "work flow" of land surveyors and engineers. After enjoying life as a 15 year owner of his own survey and engineering company, Doug joined Carlson in 2017 as the Survey Product Manager to help ensure Carlson continues to be the leading software available to land surveyors.

10:15 AM - 12:15 PM Capital Room 0.50 NH LLS CEUs

(10) NESW—New England Surveying Women Roundtable

Wendy Pelletier, LLS & Cynthia Boisvert, LLS Moderators

Join us as we discuss topics relevant to being a woman in a predominantly male field. This is a group that was formed 2 years ago in the hopes of getting more of us together in one place from NH and other New England states.

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.

Wendy has been in the surveying field since 1984 when she worked for the City of Auburn, Maine during her first summer off from college. After being in the field for a week on the survey crew, doing topo of a landfill of all things, she decided to change her major from Architecture to Civil Engineering. She graduated



from Vermont Technical College with an Associate's Degree in Civil Engineering Technology in 1986. She went on to work in septic design in Shelburne, Vermont before moving to Keene, New Hampshire to work for C.T. Male Associates. Wendy moved back to Maine to work in engineering for 6 years before coming back to Keene. Wendy worked for David Mann and Richard Drew while preparing for the SIT and licensing exams. She became licensed in 2009. She is currently the President and owner of Cardinal Surveying & Land Planning in Keene.

Wendy has been the Treasurer of NHLSA since 2014.

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Wendy has done surveying demonstrations and classes with the local Boy Scouts, Winchester Elementary School, Gilsum STEM Academy, Marlow Perkins School, the Waldorf High School Trig class and most recently spent a week with a horticulture class at Keene High School introducing 18 students to surveying, all in the hopes of sparking interest in the younger generation to follow in our foot steps in a great career.

Cynthia has been a NH Licensed Land Surveyor for 36 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 President, Vice President, President Elect, Past President and Publications Director. She has a BS in Environmental Design from the University of Massachusetts, Amherst.

Specific to the topic of Women in surveying, her first day on a field crew was interesting.

"One fall day, I was asked to work in the field. Willing to try anything, I said yes. I did not know that the field crew's intent with newbies, (male or female!) was to break them. Too bad that it was a cool crisp New England day, and we were running levels along the Ellis River in Jackson. At the end of the day, we turned to see a buck strolling down the center of the river. I was hooked."

10:15 AM - 11:15 AM 0.25 NH LLS CEUs Pierce Room

(11) New Survey Tools & LiDAR Opportunities for Transportation Projects

Scott Warren

All projects start with a site survey and end with an as-built. This presentation will discuss where the surveyor fits in the project and what happens when the project has many sources of information for the design and construction and how these data types can be managed efficiently to ensure spatial integrity. Multi Source Data collection includes Photogrammetry, UAV, Static Scanning, Mobile LiDAR and Traditional Survey. Topic discussed will include the following:

- Who compiles all the data into the working product
- Who determines the best available data to use in final design model

- What to do about conflicts between data sources
- Distribution and dissemination of information
- Understanding Level of Detail (LOD) in Models
- Using new technology to deliver familiar plans and deliverables
- How to manage large data volumes quickly
- Tools of the laser scanning trade
- Why use new technology when the old technology still works
- Faster, higher detail data sets

Scott is WSP USA's LiDAR lead for the New England region and has over 12 years of experience in the geomatics industry. Mr. Warren is a graduate of the Geomatics and Geodesy Engineering program at the University of New Brunswick, Canada. His work in the geospatial industry has covered a wide range of surveying



projects including mining, tunnels, cadastral, hydrographic, Oil and gas, municipal infrastructure, and BIM. He has a significant amount of experience in working with engineers working on designs for various transportation agencies throughout the Northeast United States. His knowledge of terrestrial, aerial, and mobile LiDAR theory and methodology on transportation design projects has been shared collaboratively among many design teams. His recent focus has been on researching new LiDAR platforms and technologies, and how they can integrate into current and future projects.

11:15 AM - 12:15 PM Merrimack Room 0.25 NH LLS CEUs

(12) Young Surveyors Roundtable

Joshua Manning, LLS Moderator

Join us as we discuss topics relevant to being a Young Surveyor in our State. With the current age structure of NHLSA we are lacking with Young Surveyors involvement. This is a group that was formed last year in the hopes of getting more of us together in one place to discuss some of the issues young surveyors are faced with. We will use this roundtable as an opportunity to set some goals for moving forward and to formalize a mission for our group.

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Josh is a 2005 graduate of UNH Thompson School and has been licensed since 2009. Josh is employed by Lewis Builders Development, Inc. in Atkinson NH where he is responsible for all survey and planning



operations for the company. He has worked for the Lewis Family for the last 17 years. Josh is also a member of the NH Home Builders Government Affairs Committee. Josh lives in Danville with his wife Jill, two daughters Luna and Nova, and his big Bernese mountain dog Granite. When not working, Josh enjoys Mtn. biking, hiking, skiing and just being outdoors with his family and friends. Josh is excited to have the opportunity to serve as Professional Practice Director for NHLSA.

11:15 AM - 12:15 PM Pierce Room 0.25 NH LLS CEUs

(13) 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 13 for a list of reserved exhibitors.

12:00 PM - 2:00 PM Salon A/B/C 0.50 NH LLS CEUs







(14) Surveying in Floodplains

Jennifer Gilbert Senior Planner, NH Office of Strategic Initiatives Samara Ebinger, NH OSI

Jennifer & Samara will provide an overview of the National Flood Insurance Program, and information, resources, and tips for surveyors and engineers on using and revising the floodplain maps through the

FEMA Letter of Map Change process, and completing the FEMA Elevation Certificate.

Jennifer has been New Hampshire's state coordinator for FEMA's National Flood Insurance Program since 2005. For six years prior, Jennifer worked as an environmental planner for engineering consulting firms preparing

environmental reports and conducting public outreach activities for both highway and airport projects. Jennifer has a B.S. in Environmental Planning and Environmental Science and a M.A. in Urban and Regional Planning. Jennifer is a Certified Floodplain Manager (CFM®) and an Associate in National Flood Insurance (ANFITM).

2:00 PM - 4:00 PM Merrimack Room 0.50 NH LLS CEUs

Note: Approximately 1.25 hours into this session, attendees will move into the Pierce room for a roundtable discussion with session 17.

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.

NHLSA 49th Annual Meeting & Equipment Show

(15) NH Wetlands Bureau and Shoreland Program Legislative Update

Jay Aube Shoreland Program Outreach Coordinator NH Dept. of Environmental Services, Wetlands Bureau, Shoreland Program

This presentation will provide a general overview of the Shoreland Water Quality Protection Act (SWQPA). Emphasis will be placed on a recent law amendment that became effective September 9, 2017 and modified the methodology for scoring trees and saplings within 50 feet of the shoreline.

Jay has helped implement the shoreland program for nearly 10 years. He has experience in environmental consulting and he's a former public school science teacher with a strong background in Environmental Biology and Chemistry.



Collis G. Adams, CWS, CPESC Wetlands Bureau Administrator Dept. of Environmental Services

Mr. Collis Adams, CWS, CPESC will provide an update on the current status of legislature activity and rule-making relative to wetlands.

Collis currently serves as Administrator of the NHDES Wetlands Bureau and brings with him nearly 30 years of professional experience in both public and private sectors. He was appointed to his current position in June of 2001 and formerly worked in the Subsurface Section and the Site Specific Section (now Alteration of Terrain Bureau). Collis brings a



breadth of knowledge and in-depth understanding on site development issues to his current position as Administrator of the Wetlands Bureau.

2:00 PM - 4:00 PM Concord Room 0.50 NH LLS CEUs

DEPARTMENT OF ENVIRONMENTAL SERVICES

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

Session 1–2 credit hours Session 5–3 credit hours Session 8–1 credit hour Session 14–2 credit hours Session 15–2 credit hours





(16) Subsurface Utility Mapping

Michael A. Twohig DGT Associate SME for Underground Mapping Introduction by Michael A. Clifford, DGT Associate Principal in Charge

One of the most significant challenges facing any design team today is how to map the underground environment with the same Standard of Care and precision as the above ground built environment. While many assume that the national "One Call" systems in each state play an important role in mapping utilities, it is frequently misunderstood that the One Call System was only intended to perform a Damage Prevention Role and have little or no role in mapping the underground for designers.

For the past 30 years, Subsurface Utility Mapping (more commonly known as Subsurface Utility Engineering SUE by all DOT's) professionals have provided an engineering discipline dedicated to locating and mapping the buried facilities and it has been proven to be one of the safest methods to locate our utility lines both on public and privately funded projects. SUM professionals across the world utilize the latest geophysical technologies, the best of survey practices and mapping applications to locate and identify the full extent of the buried infrastructure in the design and planning stage of a project. However, for the past three decades, SUM services have been predominately a boots-on-the-ground locating and mapping service which is quickly becoming incompatible with worker Health and Safety Concerns, tighter survey budgets and diminished project design schedules.

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.

Note: Natural Scientists credits are not preapproved, use your best judgement when choosing your sessions.

NHLSA 49th Annual Meeting & Equipment Show

With the advent of modern mobile LiDAR systems, the future of 3D mapping has been clear; integrate all the above and below ground remote sensing systems into a single mapping platform. This presentation will focus on emerging technologies that will change the way we locate, map, store and present subsurface facilities information including a look at Risk Management and Utility Surveying Best Practices from around the Globe.

Michael is a Subject Matter Expert in the field of Subsurface Utility Mapping (SUM). Michael has over thirty years of industry experience including a focus on the integration of traditional utility locating procedures with Land Survey Best Practices. Michael's focus is on Subsurface Utility Locating, 3D Utility mapping and Subsurface Utility Damage Prevention programs for public and private firms across the globe.



Michael is currently developing Multi-Sensor Mobile Mapping platforms using the next generation of Multi-Channel, Multi-Frequency Ground Penetrating Radar (GPR) system for the Subsurface Utility Mapping and void detection industry. As a SUM practitioner Michael has worked on significant projects in the US, Australia, India, and Europe. Over the past 34 years, he has authored over 40 articles relating to Utility mapping, Underground Damage Prevention and Utility Industry Best Practices and he is a frequent speaker at International conferences such as the Common Ground Alliance CGA, SPAR, Hexagon and the international Lidar conference ILMF. Mr. Twohig has also presented SUM Best Practices at Military, Transportation, Commercial and GITA conferences. One of Michael greatest achievement is the advancement and development and implementation of new 3-Dimensional deliverables for Geospatial projects, integrating LiDAR, utility locating systems, Ground Penetrating Radar (GPR), Infrared, Land Surveying, and multi-sensor platforms to provide high quality, reliable and accurate data for CAD, GIS and BIM delivery format.

2:00 PM - 4:00 PM Capital Room 0.50 NH LLS CEUs

Schedule Subject to Change -Updates will be posted in the Bulletin Board

(17) Land Surveying and Civil Engineering Success Stories - followed by Floodplain Roundtable

Timothy S. Mallette, LLS, PE, CFM

Redevelopment of sites and rehabilitation of infrastructure often present opportunities for land surveyors, engineers, and developers to realize significant benefits for future generations. Development evolves. Resiliency and life cycle cost reduction are necessary for communities in the Granite State.

This award winning project is a case study of how a betterment project reduced the maintenance burden and restored part of a stormwater system to a natural condition. Mr. Mallette will present an overview of a hydraulic rehabilitation project in the context of the evolution of highway betterment and adjacent development including creation of easements, frontage lot aspects, and private land abutting public land.

Tim is a civil engineer and land surveyor currently employed by the New Hampshire Department of Transportation. He holds a BS in Civil Engineering Technology from UMass Lowell. From 1982 to 2003 he worked up the ladder of responsible charge, rung, rung, rung. In 2003 he got off the ladder and used the elevator, - ultimately, moving up a



couple of floors. He is active in leadership roles on several committees and non profits.

2:00 PM - 4:00 PM Pierce Room

0.50 NH LLS CEUs

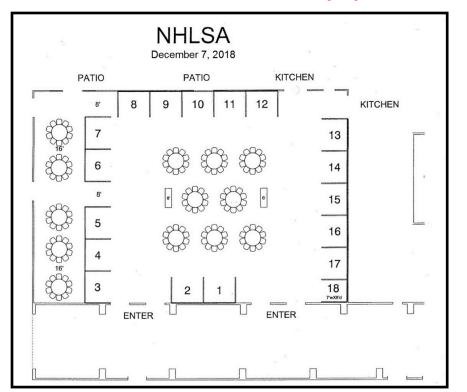
Note: Approximately 1.25 hours into this session, attendees from session 14 will move into the Pierce room for a joint roundtable discussion.



- Doucet Survey, Inc.
- Eastern Topographics
- Keystone Precision Instruments
- WSP

EXHIBITORS & SPONSORS

NHLSA 49th Annual Meeting & Equipment Show



SALON A/B/C

<u>Exhibit Hours</u> <u>Set-Up</u>

Installation Thursday, December 6 9:00 PM - 11:00 PM

Friday, December 7 6:00 AM - 8:00 AM

Dismantle Friday, December 7 3:30 PM - 4:00 PM

Booth: Exhibitor

- 1 & 2: Maine Technical Source
- 3: Col-East International Ltd.
- 4 & 5: Keystone Precision Instruments
- 6 & 7: Spiller's
- 8 & 9: Advanced Onsite Solutions LLC
- 10: Eastpoint Lasers LLC
- 11 & 12: Topcon Solutions Store
- ♦ 13: WSP
- 14: Carlson Software
- ♦ 15: CADNET Services
- 16: Seacoast Aerial Solutions
- ♦ 17: National Geodetic Survey
- 18: National Society of Professional Surveyors

Exhibit Hall Activity

Continental Breakfast Friday 7:30 AM

> Morning Break Friday 10:00 AM

Ahhh— The smell of fresh popcorn!

Lunch w/Exhibitors

Session 13: Exclusive Viewing of Exhibits

12:00 PM - 2:00 PM

Afternoon Break Friday 3:00 PM

HOTEL INFORMATION

NHLSA 49th Annual Meeting & Equipment Show

The Courtyard Marriott & Grappone Conference Center, 70 Constitution Avenue, Concord, NH 03301. Phone: 603-225-0303, Fax: 603-225-8916. Room Rate \$119.00+tax/night. ROOM RESERVATION DEADLINE:

Reservations must be received on or before **November 14, 2018**. At this date, the hotel will review reservation pick up for the event and release the unreserved rooms for general sale.

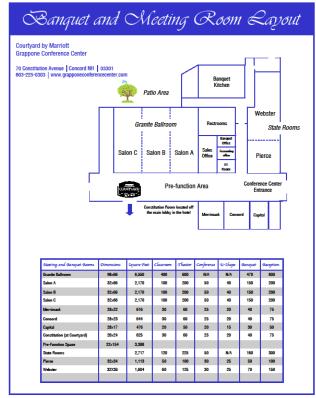
OVERNIGHT RESERVATION OF ROOMS:

- 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 12:00 noon.
- Cancellation, late arrival or special arrangements should be made directly with the Courtyard Marriott.
- 3. Complimentary on-site parking.

Directions to Hotel: Hotel is located off Rte 93, Exit 15W. Turn right at the first stoplight onto Commercial Street. Follow Commercial Street 1/4 mile to Constitution Avenue.



If you need further information, check out the hotel website at: http://www.marriott.com/hotels/travel/mhtcn-courtyard-concord/

Spouses & Guests

Shopping is available nearby at the Steeplegate Mall. Another shopping location is downtown Concord with a variety of shops.

Other area attractions include the State Capitol, located at 107 North Main Street. Concord is the state capital and is home to the oldest state capitol building in the United States.

The new McAuliffe-Shepard Discovery Center is a lively science center featuring 21st century interactive exhibits on aviation, astronomy, Earth and space sciences, a state-of-the-art planetarium and a variety of science and engineering programs. The Discovery Center is open seven days a week. For show times, topics and reservations call 603-271-7827 or check out www.starhop.com.

The Museum of New Hampshire History is located at 6 Eagle Square and is open from 9:30am thru 5pm. Admission is \$5.50 for adults, \$4.50 for seniors, and \$3.00 for children ages 6-18.

Children under 6 and members free. This Museum features exhibits on everything from Native American remains to the Concord stagecoach. An interesting trip through this scenic state's history. Check out their website at: <u>http://www.americanheritage.com/content/museum-new-hampshire-history</u>



NHLSA BOOKSTORE ~ NHLSF BENEFIT AUCTION

NHLSA 49th Annual Meeting & Equipment Show

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 20% shipping & handling charge. Barbara and our devoted volunteers will have a mini bookstore set up in the pre-function 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 deduction 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've also got 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.



Please drop off your item and form at the registration table. Thank You for your Support!!

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!

BENEFIT AUCTION DONATION PLEDGE FORM

Don't miss the Fun, Food and Action at the NHLSA Benefit Auction! Live Auction Thursday 8:00 - 9:00 PM (beginning during banquet dessert) 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 \$		

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

DOOR PRIZE DONATION:

RAFFLE DONATIONS

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

2018 NHLSA CONVENTION REGISTRATION

BEST VALUE

NHLSA 49th Annual Meeting & Equipment Show

Early Bird Full Registration Before November 9th—\$300/\$400

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	Early Bird Full Registration—before Nov. 9	th \$300.00	1	\$400.00	\$		
	Full Registration—after Nov. 9th	\$350.00		\$450.00	\$		
	Thu All Day (see below)	\$225.00		\$325.00	\$		
	Thu Seminar Only (includes breaks & lund	ch) \$200.00		\$250.00	\$		
	Fri Only (see below)	\$200.00		\$250.00	\$		
	Friday Special Offer - Affiliate & Stud	lent Members - F	irst tei	n (10) reg-	\$		
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	Banquet & Benefit Auction Only or Additi		_	\$60.00	\$		
BAI	BANQUET CHOICE () Prime Rib () Chicken Statler) Baked Stu \$50.00	ffed Scroo \$	u	
	Thu or Fri Lunch Ticket (includes breakfas	-		1		N/C	
	Equipment Show Only (lunch ticket & CEL	Js not included)		N/C	\$	N/C	
	Annual Meeting			N/C	\$	N/C	
	Past Presidents' Breakfast Irsday All Day—includes workshops, contin		<u> </u>	N/C Total Payr	\$	N/C	
lunc Fric	h, banquet & benefit auction lay Only —includes workshops, continental quipment show					ellation Policy	
	Receive 20%* off for five (5) or more		ion	Written cancellation request must be postmark			
	*20% discount only applies to Full egistration, or One-Day Continental	Days of Workshops with tinuing Education Units tinental Breakfast (2) ning & Afternoon Breaks (2)			Gra	el Reservation Deadline Courtyard Marriott ppone Conference Center 0 Constitution Avenue Concord, NH 03301	
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* * *	All registrations must be accompanied wit Reservations cannot be taken by phone. Send both pages Only one person and guest per registre Make copies if needed	ration form	Mail or FAX Form (do not email credit card info) New Hampshire Land Surveyors Association (NHLSA) PO Box 689 Raymond, NH 03077-0689 Phone: 603-895-4822 Fax: 603-386-6856 Email for inquiries: info@nhlsa.org Website for brochure or to register: www.nhlsa.org				

WORKSHOP SELECTION

NHLSA 49th Annual Meeting & Equipment Show

WORKSHOPS

Thursday, December 6, 2018						
✓	#	Title · Room · Times · Continuing Education Units				
	1	Professional Ethics • Salon A • 8:00 AM - 4:00 PM • 2.0 NH CEUs				
	1	DES Approved · 2.0 Credit Hours				
Frida	ay, I	December 7, 2018				
	2	Counting Down to 2022 · Merrimack Room · 8:00 AM - 10:00 AM · 0.50 NH CEUs				
	3	Pushing Back—A Tale of Three Towns \cdot Concord Room \cdot 8:00 AM \cdot 9:00 AM \cdot 0.25 NH CEUs				
	4	The Compass as a Surveyor's Tool \cdot Capital Room \cdot 8:00 AM - 9:00 AM \cdot 0.25 NH CEUs				
	5	Subsurface Systems Bureau Update \cdot Concord Room \cdot 9:00 AM - 12:00 PM \cdot 0.75 NH CEUs				
	5	DES Approved · 3.0 Credit Hours				
	6	Small Business Compliance 101 \cdot Capital Room \cdot 9:00 AM \cdot 10:00 AM \cdot 0.25 NH CEUs				
	7	Northeast Surveying Societies (NESS) Roundtable \cdot Pierce Room \cdot 9:00 AM \cdot 10:00 AM \cdot 0.25 NH CEUs				
	8	Ethics & Standards \cdot Merrimack Room \cdot 10:15 AM \cdot 11:15 AM \cdot 0.25 NH CEUs				
	8	DES Approved · 1.0 Credit Hour				
	9	GIS Beyond the Acronym \cdot Capital Room \cdot 10:15 AM - 12:15 PM \cdot 0.50 NH CEUs				
	10	New England Surveying Women (NESW) Roundtable \cdot Pierce Room \cdot 10:15 AM \cdot 11:15 AM \cdot 0.25 NH CEUs				
	11	New Survey Tools & LiDAR Opportunities \cdot Merrimack Room \cdot 11:15 AM - 12:15 PM \cdot 0.25 NH CEUs				
	12	Young Surveyors Roundtable · Pierce Room · 11:15 AM - 12:15 PM · 0.25 NH CEUs				
	13	Exclusive Viewing of Exhibit Hall · Salon A/B/C · 12:00 PM - 2:00 PM · 0.50 NH CEUs				
	14	Surveying in Floodplains · Merrimack Room · 2:00 PM - 4:00 PM · 0.50 NH CEUs				
	14	DES Approved · 2.0 Credit Hours				
	15	Wetlands Bureau and Shoreland Program Legislative Update \cdot Concord Room \cdot 2:00 PM - 4:00 PM \cdot 0.50 NH CEUs				
	15	DES Approved · 2.0 Credit Hours				
	16	Subsurface Utility Mapping · Capital Room · 2:00 PM - 4:00 PM · 0.50 NH CEUs				
	17	Land Surveying and Civil Engineering Success Stories \cdot Pierce Room \cdot 2:00 PM - 4:00 PM \cdot 0.50 NH CEUs				
Rem	inde	r: Badge & meal tickets required for all events!				

How do you prefer your 49th Annual Meeting Booklet? Would you like a 2019 Souvenir Calendar?

DIGITAL YES

HARDCOPY 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, fax both sides, or register on the website.

EARLY BIRD FULL REGISTRATION—Save \$50 by registering before November 9th!

