

The TBM Newsletter of the NHLSA

Volume 22 Issue 2

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The TBM is published
by the

**New Hampshire Land
Surveyors Association**

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NSPS

Affiliated with the National Society
of Professional Surveyors

"Don't judge me by my
past, I don't live there
anymore."

~ Anonymous



Magalloway Fire Tower, Pittsburg, NH

Photo submitted by Emily Hayes

Deadline for Advertising and Articles

The TBM Newsletter of the NHLSA is published monthly.
Copy and ad deadline is the 1st of each month.

Inside this issue:

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LAND SURVEYORS NEEDED

Doucet Survey is a progressive land surveying company in the seacoast area of New Hampshire with immediate openings for the following positions.



FIELD CREW CHIEF

Experienced Field Crew Chief with a minimum of 4 years of experience as a Crew Chief working on high-detail engineering surveys, ALTA's, and construction layout. A college degree and passed F.S. is also preferred. Must be detail-oriented, experienced in the proper care and maintenance of field survey equipment, proficient in field survey methods and techniques, and have some supervisory experience. The successful candidate will work with Trimble equipment, Leica scanners, and other progressive technologies on a wide variety of projects throughout New England. A driver's license and good driving record are required. Some overnight travel may also be required. Must also be able to pass a Department of Defense security screening.

INSTRUMENT OPERATOR

A highly motivated Instrument Operator with 1-year land surveying experience or a 2-year survey degree is required. Experience with Trimble Total Stations and Trimble Access software is a plus. Must be able to perform various land surveying tasks under the direction of a supervisor, be detail-oriented, and possess excellent communication skills. A valid driver's license, good driving record, ability to lift up to 75 pounds and work in a variety of weather conditions is also required. Some overnight travel may also be required. Must also be able to pass a Department of Defense security screening.

CAD DRAFTSMAN

Qualified applicant should have a college degree in computer drafting or related program and a minimum of two years of survey or civil site engineering experience. Experience with Autodesk Civil 3d, Revit, Recap, Bentley OpenRoads as well as a variety of point cloud processing software is a plus. Doucet Survey embraces current 3D technology and our approach allows us to maximize value for our clients by providing a wide variety of ever-changing deliverables. The successful candidate will work with our growing team to compile a variety of high-level detailed deliverables to our clients and will be expected to keep pace with the ever-advancing technology through research and training.

Doucet Survey has offices in Newmarket & Bedford, NH and Kennebunk, ME and offers a competitive salary and benefits package. Visit our website at www.doucetsurvey.com for more information. Please send resume and cover letter to email@doucetsurvey.com.

Doucet Survey follows an equal opportunity employment policy and employs personnel without regard to race, creed, color, ethnicity, national origin, religion, sex, sexual orientation, gender expression, age, physical or mental ability, veteran status, military obligations, and marital status.

This policy also applies to internal promotions, training, opportunities for advancement, terminations, outside vendors, members and customers, service clients, use of contractors and consultants, and dealings with the general public.

Boundary Research & Reconnaissance

Deed, plan, and archival research.
Extensive private document collection.
Boundary reconnaissance &
parol evidence gathered.

48 years of experience,
multiple references available.

Fast, thorough, and reasonable rates.

Contact: Sonny Harris ~ 603-938-2923.





Vice President, Surveying/Geomatics

Want to become an *owner* with one of Maine's *best places to work* and be part of one of the largest survey staffs in the State, with a reputation for quality work and use of innovative survey technologies? Sebago Technics, a 100% employee-owned, multi-disciplinary engineering consulting firm, located in South Portland, Maine, is **currently seeking candidates for VP of Surveying/Geomatics**.

The position serves as the discipline leader and is responsible for the overall operations of the survey/geomatics group. Service areas include topographic/boundary/as-built/hydrographic surveying, construction layout, highway, infrastructure and right-of-way (ROW) surveying, flood plain determinations, 3D laser scanning, UAV photogrammetry and GIS analysis, mapping, database development/support. The position is responsible for coordinating/supporting survey services to internal disciplines and external clients.

Successful candidate must have a minimum of 8-10+ years management, supervisory or support experience in the delivery of survey/GIS services. PLS or Certified GIS/Geospatial Professional preferred.

If you have the qualifications, enthusiasm and desire to lead, we'd love to hear from you! To view full job description and how to apply please visit our website: www.sebagotechnics.com



50 Years of History and Memories

Now that the dust has settled from the 2019 Annual Meeting, we are able to close the books on calendar year 2019. This means we are now ready to finish the promised anniversary book depicting 50 years of NHLSA history, highlights, and memories. If you haven't submitted a photo or your bio for inclusion into this Anniversary book, you've already missed the deadline, so you better hurry. Contact Barbara yesterday.



There are some limited advertising or sponsorship opportunities in this anniversary yearbook. Revenue raised by advertising will help offset the individual purchase price for the book. This is a good opportunity to promote your business, support NHLSA, and have your company preserved in the historical record. Contact Barbara at: info@nhlsa.org or give her a call at 603-895-4822 if you are interested in advertising.

Prices are:

Full page \$250
Half page \$150
Quarter page \$75
Business card \$50

Keep in mind that if you don't get your business recognized and promoted in this 2019 anniversary book, you'll only have to wait 50 years for the next opportunity!



Mark Stevens
2019 Publications Director
50th Anniversary Yearbook Editor

News from the Governmental Affairs Director

The profession of surveying has changed over the decades, particularly the rapid changes in technology. From a compass and a chain to a steel tape and transit. From a theodolite and EDM to a total station. Now we are in the age of GPS and UAV 's. While the profession has morphed and changed with technology and society, the laws that govern and regulate what surveying is and who can statutorily perform which tasks has not kept up to date.

As the new Governmental Affairs Director for the Association my goal is to tackle some of the challenges facing the surveying profession and continue to make it viable for future generations of surveyors.

My goals for the Legislative Committee, and the Association as a whole, are to first define a process and set priorities for how we as an Association advocate for specific legislation. As an Association we are currently tracking 60 bills and other legislative committee activity. The bills range from very important such as HB 1441, a bill relative to the perambulation of town boundaries, to less important such as HB 1276, relative to Ex-officio members of budget committees and planning boards. As a result, the Association needs a mechanism where the Legislative Director can have guidance for how to prioritize and correspond with legislators and other pertinent government officials on behalf of the Association. Another goal is to create an electronic repository so this information is available and accessible to any interested members.

I also want to hear from the membership. Since I am new to the position the last thing I want to become is an island making decisions contrary to the needs of the membership. I urge anyone who has legislation that they may think is important, or issues that affect surveying that we would wish to bring forward to the legislature, please email me your ideas and concerns to mark@gcengineering.com. Together the Legislative Committee, along with the many voices of the membership, can build a strong and lasting policy to move the profession forward.

The legislative priorities that I have brought forward, which I intend to promote and advocate for on behalf of the Association are:

- Right of Entry
- Increase fines for violation of state licensure regulations (\$10,000 per occurrence in Illinois)
- Create a private cause of action against unlicensed practitioners
- Update definition of Land Surveying in NH to reflect current methods and technology as well as internet encroachment.

These priorities will help to strengthen consumer protection and allow surveyors to continue to work to protect the health and welfare of the residents of NH, the very reason for licensure outlined in RSA 310-A:53. By advocating for increases in punitive damages towards unlicensed violators of statutes, it will ease the burden on licensing fees. Instead of the licensee shouldering the entire financial burden, it can be shared with those who would operate outside of the rules and regulations of professional licensure. A simple Google search with keywords such as "surveying NH" will yield websites from home advisor and Angie's List giving references to firms that perform surveying. Alternatively, it will also provide a myriad of websites that profess to provide surveying services in the state that are neither run by surveyors, or registered with the state and have a Certificate of Authorization. This leads consumers to question who they should rely on, and as we all know, cost is the most significant factor in making decisions to hire professionals. I look forward to promoting the interests of NHLSA and working with members to enhance the role of surveying in today's society. I end with an African proverb "alone you go fast, but together you go far." I feel together we have great opportunities to update rules and laws governing surveying and to ensure the profession continues for generations to come.

I look forward to serving.

Respectfully,
Mark Condodemetraky, PE, LLS





BEALS+THOMAS

WE'RE HIRING!

Beals and Thomas Inc. is currently seeking responsible, highly motivated and detail-oriented individuals to join our land surveying department. For over 35 years, we have provided survey, civil engineering, planning, permitting and environmental services. We work collaboratively with our multidisciplinary team to address land conservation and development challenges.

WHAT WE OFFER:

- HIGHLY COMPETITIVE COMPENSATION
- PERFORMANCE BONUSES
- COMPREHENSIVE BENEFITS PACKAGE:
 - HEALTH, VISION & DENTAL INSURANCE
 - LONG-TERM & SHORT-TERM DISABILITY
 - 2X ANNUAL SALARY LIFE INSURANCE
- PAID SICK TIME, HOLIDAYS & VACATION DAYS
- 401K PLAN WITH COMPANY MATCH
- PROFESSIONAL DEVELOPMENT & TUITION REIMBURSEMENT

*POTENTIAL SIGNING/ RELOCATION BONUS AVAILABLE!



CREW CHIEF

- Minimum of 5-7 years relevant experience in boundary, topographic, utility, ALTA/NSPS Land Title Surveys, and Construction layout surveys
- Experience as a Field Survey Chief or Party Chief
- Experience with robotic total stations and data collectors
- Experience with GPS, GIS and AutoCAD Civil 3D is preferred
- SIT registration and a Bachelor's degree in surveying or related fields will be considered highly advantageous

FIELD TECHNICIAN

- Minimum of 1-3 years relevant experience in boundary, topographic, utility, ALTA/NSPS Land Title Surveys, and construction layout surveys
- Experience with robotic total stations and data collectors
- Experience with GPS, GIS and AutoCAD Civil 3D is preferred

OFFICE TECHNICIAN

- Minimum of 1-3 years relevant experience in boundary analysis, topographic plan preparation and construction layout surveys
- Experience as a Field Survey Chief or Party Chief
- Experience with robotic total stations and data collectors
- Experience with GPS, GIS and AutoCAD Civil 3D is preferred
- SIT registration and a Bachelor's degree in surveying or related fields will be considered highly advantageous

Minimum Requirements for All Positions:

- High school diploma or equivalent
- Strong mathematical skills
- Basic computer skills
- Effective communication skills
- Valid driver's license
- Physical ability to work outdoors in all weather conditions and lift a minimum of 50 lbs
- Available for paid overtime as required
- Responsibility on various work assignments

If you are ambitious, take pride in your work, and are seeking to advance your career, we encourage you to apply to join our team.

Please send a cover letter and resume in PDF format to recruiting@bealsandthomas.com or visit our website: www.bealsandthomas.com to apply.

Boston Southborough Plymouth

Young Surveyors Decade Challenge

The below was one of our posts from November 26, 2019. It received 475 likes and attracted a lot of attention on social media. The post was a “decade” challenge by one of our active members and now VP of NHLSA Mitch Cummings. The YSC has begun “interviewing” young professionals around the state and will soon be posting similar content in order to gain interest in the field of Land Surveying.

Our Instagram @nhlsayoungsurveyors or Instagram.com/nhlsa_young_surveyors



NHLSA WELCOMES NEW MEMBERS FOR FEBRUARY

ASSOCIATE

Robert Baskerville
Bedford Design Consultants
177 East Industrial Park Drive
Bedford, NH 03110
603-622-5533 (o)
bobb@bedforddesign.com

Jose David Reyes, SIT #731
458 Oak Street
Sebastian, FL 32958
Jose is employed with:
Craven Thompson and Associates
3563 N.W. 53rd Street
Fort Lauderdale, FL 33309
954-739-6400 (o)
954-739-6409 (f)
772-453-6157 (h)
dreyes@craventhompson.com



If you’ve sent in your 2020 annual dues renewal—thank you. 2nd dues notices are included with this issue.

(dues cards available upon request)



Backsights



50th Annual Meeting & Equipment Show

The long anticipated and planned for 50th Annual Meeting of the New Hampshire Land Surveyors Association has been successfully completed, taking place Thursday and Friday, December 5 & 6, 2019 at the Courtyard Marriott & Grappone Conference Center in Concord.

The Annual Meeting was held after lunch on Thursday, and the banquet and Foundation Fundraising Auction took place on Thursday evening. The various awards were interspersed throughout the two days. A silent auction was conducted on both Thursday and on Friday until the afternoon break. Vendors had booths showing off their wares, answering questions, and networking with the membership.



As always, the event was successful thanks to all our volunteers who helped make it happen (in no particular order): Jeanne & Chas Pearson (stuffing gift totes, badges, registration table, auction), Mark Stevens (stuffing gift totes, badges, going back after the event to pick up forgotten items), Ginger Sargent (auction), Jean & Wayne McCutcheon (registration table, antique surveying equipment booth), Bob Smith (badges, yes Bob we still need stinking badges), Sharry Morse & Susan Ramsdell (binding the Annual Booklets), David & Toni Mann (registration table, auction, pictures), Corey Colwell, Eric Mitchell, Steve Ferguson, John Chagnon & Eric Salovitch (packing up), Sandy Brown & Gayle Burchard (auction). We apologize for others we have missed. Also, a hearty and sincere thanks goes to the 50th Annual Committee: Chair and Past President Doug Burnell, President Corey Colwell, President Elect Eric Mitchell, Vice President Steve Ferguson, Education Director Darren

Hardy, Publications Director & Past President Mark Stevens, Past Presidents Brian Burford, Stan Prescott, Wayne McCutcheon, and Cynthia Boisvert, and Executive Administrator Barbara Cormier, who worked all year to make what was essentially our 50th anniversary party a rousing success. Barbara Cormier deserves a special thanks. Every year she works tirelessly to put everything together; she makes it look easy. We are all thankful for her steadfast service to the Association.



There was a different format for the annual this time around. Normally, there is an all-day seminar on Thursday, followed by a variety of workshops on Friday. This year there were various workshops on both days, allowing members to take in many different topics as they saw fit. There were the usual workshops focusing on emerging technologies, regulatory updates, etc. One of the unique differences in 2019

were the presentations about the history of the Association. The other difference is that we offered the vendors two days to exhibit instead of just Friday.



Among the workshops celebrating our past was an engaging half day presentation, moderated by Doug Burnell, titled "Following In Their Footsteps", featuring many founding members of the Association. The veteran surveyors shared their memories of the legislative and interdisciplinary battle to establish licensure for land surveyors in New Hampshire, the founding of the Association, fond memories of days long past, and their impressions of the profession today. Thank you to: Past Presidents Gordon Jackson, Chas Pearson, Don Blanchard, Stan Prescott, and Wayne McCutcheon; Tom Moran, David Noyes, Bob Berti, and Alan Swanson for participating and sharing your stories.

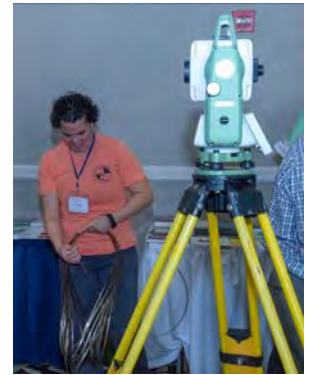
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Another walk down memory lane was a fantastic presentation by Dusty Smith, who went through the history of surveying computing technology over the last 50 years. Part of his presentation was a well done video on the evolution of the technology; that video, "NHLSA 50 years in 15 minutes", can be seen at <https://youtu.be/4pgQkr6mleg> for any members who may have missed it. A fascinating look at the progress that has been made from the Olivetti Programma 101 to the CAD programs and near instantaneous calculation of coordinates, adjustments, etc., of today. For those of us young enough to have not used these machines or seen the evolution, it was enlightening to see the changes down the years, while for those who were present for the improvements in the technology, I am sure it was a nostalgic look back at their careers.



A fun event, since it was pretend, Eric Mitchell hosted a Mock Planning Board where members volunteered to be either a client, a butter, or planning board member. We're sure members have their own "fun" stories with planning boards.

The Young Surveyors hosted a Surveying Olympics session throughout the day on Thursday. Events ranged from chain throwing, to pacing, to cone throwing. Emily Hayes provided a great write up on the winners of each event for the January 2020 issue of *The TBM*. I encourage you to check it out if you haven't already.

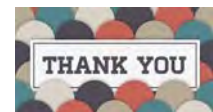


The Young Surveyors Committee receive a Presidential Citation

On Friday morning Steve Ferguson hosted another historic presentation with a showing of a 1988 NHLSA Research Seminar. This was one of the Association’s first Case Studies programs and was presented, in 1988, by Brian Burford and Don Wilson. The more things change, the more they stay the same, particularly with regards to how critical good research is to a successful survey. Speaking of videos, NHLSA hired a videographer from Goodheart Media Services to record just a few events for prosperity.

Beyond the special 50th topics, members were treated to a wide range of topics that included:

- ◆ Technological Advances with Steve Ferguson
- ◆ Mobile Imaging/Scanning, “Off the Tripod” with Robert Vargo & Justin Brooks
- ◆ Working with Town, State, and Federal Agencies on Lakefront Storm Water Management Regulations with Kevin Kelly
- ◆ Reality Capture Technologies with Bruce Marquis & Jim Bosworth
- ◆ Litigation by the Lake – Who Owns the Road with Paul Alfano
- ◆ Past President, Stan Prescott was host to the LEFT award presentation of the Sanborn Mills Farm
- ◆ Rangeways – Time for Resolution with a panel consisting of Sue Weeks, Nate Amsden, Elaine Clow, and Hank Amsden
- ◆ NSPS Overview with John Chagnon
- ◆ Overview of NGS Products and Services with Dan Martin
- ◆ The Redefined Role of Technicians in a Modern Surveying Business with A. Richard Vannozzi
- ◆ Surveying in Floodplains with Jennifer Gilbert and Samara Ebinger
- ◆ A North East Surveying Societies Roundtable moderated by J. Corey Colwell
- ◆ CAD Tips and Tricks for Better Efficiency with Rick Ladd
- ◆ Subsurface Systems Bureau Update with Rob Tardif
- ◆ A New England Surveying Women Roundtable moderated by Wendy Pelletier & Cynthia Boisvert
- ◆ Discussion with the Office of Professional Licensure and Certification with Bill Doucet and Joe Wichert
- ◆ Apprenticeship as a Workforce Strategy with Emily Zeien and Anne Banks
- ◆ A Young Surveyors Roundtable moderated by Eric Salovitch
- ◆ Young Surveyor Olympics Review and Forum
- ◆ Map Contest Showcase with Map Contest Chair Kevin Arsenault
- ◆ Subsurface Utility Mapping: A Historical Perspective of Land Surveyors Role Mapping Underground with Michael Twohig and Michael Clifford
- ◆ Latest Trends in GNSS with Ray Hintz
- ◆ NH Shoreland Protection Act Program Legislative Updates & Overview of NHDES’ New Wetlands Rules with Jay Aube and Sandra Crystall
- ◆ Basics of Photogrammetry and Map Accuracy Standards with Ted Covill



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The Business meeting was held after lunch on Thursday, facilitating (maybe forcing) the participation of those members who like to sneak out before the meeting when held Thursday evening. There were not any controversial items on the agenda, and the meeting was expeditiously conducted. The always entertaining Brian Burford treated us to his Teller's Committee report, announcing the election winners. NSPS President Lisa Van Horn was on hand to swear in the officers and directors for the upcoming year.



Incoming President, Eric Mitchell presented outgoing President Corey Colwell with a commemorative plaque.

The most special moment of the whole Annual came when Eric Mitchell & Corey Colwell presented Barbara Cormier with a giant check



for \$11,600! The money was the result of contributions and donations from the membership as a thank you for all the years of dedicated service to the Association. It was a wonderful moment to see Barbara receive a standing ovation and recognition she deserves.

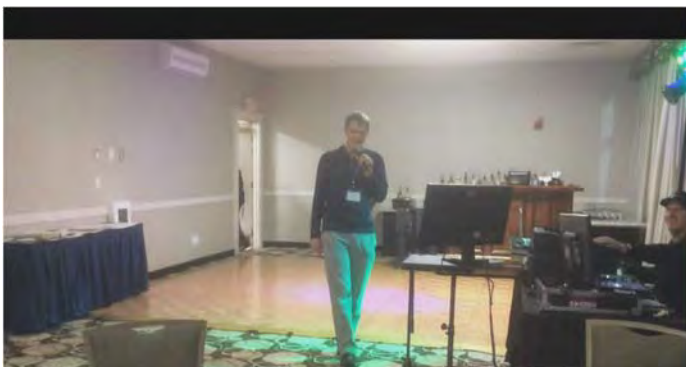


Editor's Note: Since all of these pictures were taken, I wanted to share them to show what you did to me. As you can see, it took me a bit to realize what just happened. There is no way that I can thank you enough for the support you have shown me and it's going to take me quite a while to comprehend this. Update: the checks didn't stop after the initial check was presented. The total is \$12,910. Still unbelievable to me. I'm still depositing checks, a few a week as I have PC Deposit, and every week, I cry just a little more. Once again, and maybe again in the future, I want to thank you so, so much for your generosity and support. - Barb



Thursday evening brought the Annual Banquet and Foundation Auction. We were treated to the musical stylings of DJ Bobby Freedom, who encouraged, unsuccessfully, members to sing karaoke. I did not witness any singing, but I did hear one member got up the courage to show off his vocal prowess later in the evening, but I had already retired for the day. [Seth Burnell graced those of us who were left at the end of the night with a few songs, and it was good, and captured on video. © The dancing was fun too - too bad more members didn't stick around for the fun!]

Hi Barbara, it was great to meet you and thanks so much, we rocked it at the ending. - Bobby



The Foundation Auction brought in \$5,500 for support of the Foundation's mission. Thank you to all who donated and bid on items. Successful bidders and gracious donors were:

Donors (in no particular order)

- Lisa Van Horn—NSPS President
- Ed O'Brien—RISPLS President
- Matthew Ek—MSLS President
- Darren Hardy—MALSCE President
- Alan Fenrow—CALS Treasurer
- Greg DeBruin—NYSAPLS President
- Jim Bosworth—Maine Technical Source
- Marc Roy—Spiller's
- Todd Carlson—Carlson Software
- Mike Gage—Seco Mfg.
- Dave O'Hara
- Doug Burnell
- Wayne McCutcheon
- Corey Colwell
- David Mann
- Eric Mitchell
- Ed Goodrich
- Roscoe Blaisdell
- Norm Brown
- Barbara Cormier
- Tim & Sheila Bernier
- Chris Jacobs
- John Chagnon
- Stan Prescott
- Gayle Burchard
- Wendy Pelletier
- Cynthia Boisvert
- Bill Shippen, MSLS Past President
- Tom Kelley
- Family of John Newton

There was one bidder with no name, who purchased Tom Kelley's 2-cases of Guinness beer.

Also, after sending out thank you letters to the donors, we received the following:

*Hi Barbara,
Please thank Mr. Mitchell for the thoughtful letter, we're more than happy to support the NHLSA!*

*Sincerely,
Todd
Carlson Software*

Ps. My brother still has his 25th anniversary mug!



Bidders (in no particular order)

- Gayle Burchard
- Bill Shippen
- Lisa Van Horn
- Mark Condodemetray
- Matthew Ek
- Cynthia Boisvert
- Darren Hardy
- Steven Ferguson
- Ed O'Brien
- David Mann
- Mark Sargent
- David Krause
- Doug Burnell
- Bob Talon
- Sharry Morse
- Dan Martin
- Bob Tafuto
- Norm Brown
- Kevin Arsenault
- Paul Dobberstein
- Barbara Cormier
- Chris Jacobs
- Scott Patterson
- John Chagnon
- Eric Mitchell
- Bob/Rob Todd
- James Keenan
- Jarrod Rodimon
- Art York
- Chuck Adams
- Cliff Rober
- Loralie Gerard

We also want to thank members for purchasing raffle tickets raising \$529. In addition, we'd like to thank Barbara for donating the door prize, and after a little controversy, ☺, it was won by Dusty Smith.

The annual awards were dispersed throughout the two days. Awards Chair, Doug Burnell, presented the majority of the awards including these service awards. A special award was presented to Mark Sargent for his many years as the NSPS Director. Thank you all for your dedicated service!



**Mark C. Sargent, LLS 741
NSPS Director**



**Darren J. Hardy, LLS 915
Education Director**



**Kenneth C. Clinton, LLS 871
Governmental Affairs Director**



**Mark C. Stevens, LLS 737
Publications Director**



Continued next page

Timothy S. Mallette, LLS 955 also received a Service Award for serving through the Presidential cycle, but was not on hand to receive his award. With the absence of other members, additional awards will be presented at a future meeting.



**Robert J. Berti, LLS 103
Fellow Award**



**Colin Cabot, Founder
LEFT Award**



**Jean McCutcheon
Honorary Member**



**Ginger Sargent
Honorary Member**



**Kenneth C. Clinton, LLS 871
Surveying Excellence Award**



**Craig T. Bailey, LLS 1001
Literary Award**



**NSPS President Lisa Van Horn
presents President Colwell with
a 50th Anniversary Plaque**



**President Colwell presents Mark Stevens
with a Presidential Citation for being a
presidential mentor, advisor, and for all
his 50th annual contributions**



**Eric Salovitch, YSC Chair accepts, on behalf
of the entire committee, a Presidential Citation
for promoting the surveying profession,
consistent involvement in the Association and
generating enthusiasm and professionalism
amongst our future workforce.**



**Lisa was also on hand to present
Mark Stevens with the NSPS
Excellence in Professional
Journalism Contest Award**



Map Contest

This year, the Map Contest was displayed on screen in a session hosted by Chair Kevin Arsenault for all members to view not just the winning maps, but all of the maps submitted. Not on hand was the winner of the **ALTA/NSPS Map**, Michael R. Dahlberg, Keach-Nordstrom Associates, Inc.



The New Hampshire Land Surveyors Foundation awarded the following scholarships at the 50th Annual Meeting:

Warner M. Plummer
Emily Mitchell

E.N. Roberts
Dylan Lauer

Emily and Dylan were unavailable to attend the meeting.

E.N. Roberts

Konstantinos "Deano" Asprogiannis presented by Eric Mitchell, Chair



Color Presentation Map

Whitney Covill accepting on behalf of Steven V. Michaud, Doucet Survey, Inc.

Whitney also accepted the award for:

Miscellaneous Map

On behalf of Michael Carter, Doucet Survey, Inc.



Subdivision Plat

Paul Dobberstein
Ambit Engineering, Inc.



Boundary/Cadastral Map

Matthew Salvucci
Jones & Beach Engineers, Inc.



Dylan Lauer
694 Old Homestead Hwy
Swanzy, NH 03446
(631)-742-3254

New Hampshire Land Surveyors Association
2 Moulton St
Raymond, NH 03077

Dear New Hampshire Land Surveyors Association,

I cannot say thank you enough for the generous scholarship you awarded me for the 2020 academic year. It really helps me so much. I am grateful and appreciate all the donors and kind people who contribute to such a worthwhile cause, especially to Eric C. Mitchell, chair of the New Hampshire Land Surveyors Association. Thank you so much for the financial support, it is greatly appreciated.

Sincerely,

Dylan Lauer



Topographic Map

John R. Chagnon
Ambit Engineering, Inc.



Continued next page

Overall it was a great Annual Meeting & Equipment Show. The 50th needed to be special for the Association's big year, it was, and everyone involved in planning and executing the meeting should be very proud of their accomplishments. None of this would happen without the dedicated members, spouses, etc. who volunteer their time to ensure it all goes off without a hitch.

We must thank all the presenters for taking the time to prepare informative and valuable presentations and attend the meeting. Also, thank you to the employers and agencies that allowed their employees to attend and share the information with our members.

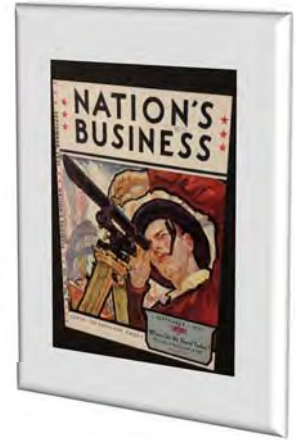
Another critical and indispensable aspect of the Annual is our vendors. It is, after all, the Annual Meeting and *Equipment Show!* Being able to view the emerging technology and interact with the various equipment and software vendors is a crucial part of staying abreast of the rapidly changing profession we find ourselves in. A very special thanks to our vendors who attended this year's Equipment Show.

Booth: Exhibitor

- ◆ Advanced Onsite Solutions
- ◆ Bluesky Geospatial Ltd.
- ◆ CADNET Services
- ◆ Carlson Software
- ◆ DGT Associates, Inc.
- ◆ Eastpoint Lasers LLC
- ◆ KCI Technologies, Inc.
- ◆ Keystone Precision Instruments
- ◆ Maine Technical Source
- ◆ National Geodetic Survey
- ◆ National Society of Professional Surveyors
- ◆ New England Laser & Transit Co.
- ◆ Spiller's
- ◆ Topaz Engineering Supply, Inc.
- ◆ Topcon Solutions Store
- ◆ WSP



Something different this year for the NSPS booth, President Lisa Van Horn brought along many magazine covers. This was a special treat for folks to peruse. In addition, Past President Wayne McCutcheon brought some of the NHLSF Museum equipment along with some of his personal treasures. Thank you both for these two special booth additions!



Congratulations NHLSA 1969-2019 Sponsored by W & LE GURLEY Troy, NY



Spoke with a LOT of people who attended our mock PB session.

EVERYONE said they really enjoyed it and related to many of the issues we raised, so was a big hit.

Thanks for inviting me to participate, was a blast, glad I didn't step down when challenged . . .

Jeanne and I wish everyone a Merry Christmas and great Holiday season.

Chas & Jeanne Pearson

Thank you too to our sponsors. Your generous contributions for the meals and breaks are appreciated and your support of the Association received with gratitude. This years sponsors were:

Barbara:

Thanks again for all your hard work in organizing this event. Of all the events I speak at each year, this one certainly stands out as being extremely well organized and of tremendous value to all that attend.

Thanks again for the thoughtful gift as well.

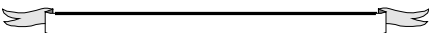
Warm regards,

Jay Aube, Compliance Specialist
Wetlands Bureau, Land Resources Management
Water Division, NH Department of Environmental Services



- ◆ Eric C. Mitchell & Associates, Inc.
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- ◆ Eastern Topographics
- ◆ Eric Mitchell
- ◆ Barb Cormier
- ◆ Bob & Lynn Smith

Eric Mitchell invited all to share in the Toys For Tots program. We didn't raise as much cash as last year, but the donations were many. Thank you to all who donated to this worthy cause!



Thank you to CADNET Services for the 50th mugs they handed out to those visiting their booth!!



As always, the Executive Committee welcomes the feedback of the membership, both good and bad. Did you like the new format? What worked? What didn't? We hope the Annual can keep getting better every year. Without the feedback and support of the membership this cannot happen.

- Paul Dobberstein
Publications Director



Frontsights

Spring Quarterly Business Meeting & Seminar

The Spring Quarterly is scheduled for Thursday, March 19th, returning to the Falls Event Center in Manchester at 8:00 am, registration and continental breakfast at 7:30. With no Education Director (any volunteers? ☺), President Mitchell heard from several members on varying topics and reached out to folks from the Registry of Deeds, UNH GRANIT, and the Wetlands Society. We also invited Paul Alfano back for an encore performance from his Annual's standing room only presentation. He plans to add to his two-hour session for a four hour presentation in the morning.

Members will be invited to a buffet lunch with a Taste of Italy flair, including Shrimp Scampi Ravioli, Penne, chicken & broccoli. Always a delight for dessert will be cookies and brownies!

Joining Paul will be Wendy Hanson, a Partner Relationship Manager. Wendy will give a presentation on the Land Records Document Search Engine (Laredo). Following Wendy will be Project Manager Mary Martin, sharing with the group on the latest GRANIT 2020. Ending the seminar will be Karen Dudley, a Resource Soil Scientist, giving a brief overview of the NRCS soil production mapping.

The Business Meeting will be held immediately after the seminar from 4:00-5:00 pm. There will be no dinner or after dinner speaker, so members can go home after a long day of class.

The Foundation will conduct their quarterly raffle. If you have an item you'd like to donate, please drop it off at the registration table. We hope to see you there!

Summer & Fall Quarterlies

Although the date and location for the Summer Quarterly seminar has not been planned yet, it is planned to be the free seminar of the year, inviting the first 100 members to register.

The Fall Quarterly is planning to be another Case Studies seminar. The speaker line-up is in progress, but we can confirm that we will be returning to the Pheasant Ridge Golf Club, and the date has been set for Thursday, September 17th.



51st Annual Meeting & Equipment Show

We can also confirm that we'll be returning to the Courtyard Marriott & Grappone Conference Center in Concord for our 51st Annual Meeting & Equipment Show on December 3rd & 4th.

On the Lighter Side

The following test was developed as a mental age assesment by the School of Psychiatry at Harvard University

Take your time and see if you can read each line aloud without a mistake. The average person over 50 years of age cannot do it.

1. This is this cat.
2. This is is cat.
3. This is how cat.
4. This is to cat.
5. This is keep cat.
6. This is an cat.
7. This is old cat.
8. This is person cat.
9. This is busy Cat.
10. This is for cat.
11. This is fourty cat.
12. This is seconds cat.

Now go back and read the third word in each line from the top down. I bet you can't resist passing this on.

Young Surveyors Committee & Seasoned Surveyors Invitational

By: Eric Salovtich, YSC Chair

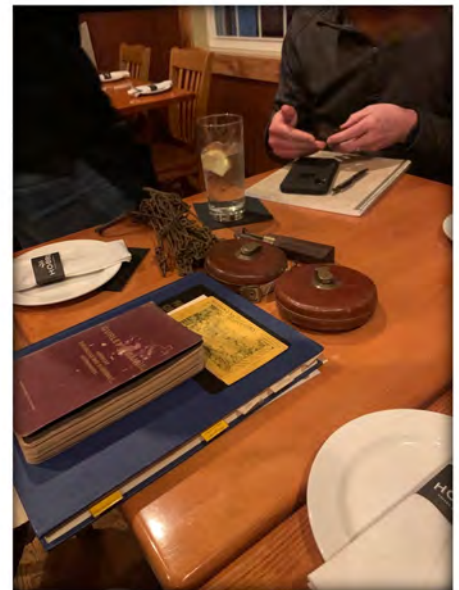
It was the evening of January 14, 2020. I walked into the back room of Hobbs Tavern in Ossipee, the location of the first Young Surveyors Committee meeting of the new decade. Typically, I'm greeted with warm smiles and a hello, but this evening was different. No one noticed me and, come to think of it, I barely noticed any of my peers. A presence captured the room like a spotlight on a Broadway stage. That spotlight was directed at Alan Barnard.

Alan grew up in Hebron, New Hampshire and began his surveying career at the age of 11 helping his older brother Bruce with septic designs and topography work. He graduated from the Berlin Vocational College in 1978 with an Associate Degree in Natural Resource Management and two majors, Forestry and Plane Surveying. After graduation, Alan began working for John R. French, sharpening the tools of his trade until French's retirement in 1986. Alan started Barnard Survey Associates, Inc. shortly thereafter and has been operating the company for the past 34 years. Outside of work, Alan enjoys snowmobiling and aiding the snowmobile clubs with trail locations, layouts, landowners, etc., as these tasks are an extension of his profession. During the non-snow seasons, he and his wife enjoy riding their Can-Am Spyder Rt Limited, decked out with all the options of course (Alan we're expecting a picture of this piece of machinery), throughout New Hampshire, Maine, Vermont, New York, and Quebec City. Like many of us surveyors, Alan spends his free time in the woods or maintaining his property. Lastly, Alan collects antique surveying equipment, some of which he brought along to share with the group during our meeting.

When asked what his favorite part of surveying is, Alan responded, "the entire process." From reading the first deed to finding something someone has not seen for 100 years and dealing with all the people involved along the way. Also, the satisfaction of leaving your mark in one's lifetime, until we turn our final corner (pun intended).

I first met Alan at the 50th annual meeting. He knew fellow-young-surveyor, Emily Hayes, so he approached us in a friendly manner and the conversation went from there. We spoke briefly about some old town line monuments Alan recently found and how interesting the history aspect of the research was, a typical survey nerd conversation to a T. I was captivated and wanted to hear more. Every month the Young Surveyors invite guests to come to our meeting. These guests aren't required to be "seasoned" surveyors but often fit the mold as they're attending to pass knowledge down to us "youngsters." Alan accepted our invite and was going to be the first guest of 2020.

Bringing the story back to Hobbs Tavern. I took my seat and joined in on the conversation with Alan. We discussed old chaining techniques, how to scribe a tree, the best way to interact with clients, and the benefits of volunteering on local boards and committees. Alan passed around some original old deeds, chains with actual links, old cloth tapes, and old business cards dated 1839. Before the meeting, Josh Manning sent me a message saying he was going to be about 45 minutes late and not to wait for him. Fortunately for Josh, we were still on the first agenda item well after the one-hour mark due to the captivating stories and presence of Alan. Alan participated in our regular meeting and offered insight and opinions on the Committee's goals for 2020. He was a vital part of the meeting and we thank him for joining us and sharing some of his knowledge and experience. Alan left the Young Surveyors with this piece of advice, "Be confident, thorough, honest, fair, and do not overthink the process."



Business card

Left: front
Right: back



The Young Surveyors are scheduling guest speakers for the rest of 2020. We would love to hear from you! If you're interested in sharing your stories and experiences with us, send an email to NHLSAyoungsurveyors@gmail.com. We meet the second Tuesday of every month at 5:00 p.m. on a revolving schedule around the State. That schedule is published in our monthly mailings. If you aren't receiving our mailings, get on the list at <https://nhlsa.org/about/young-surveyors/>.



Making your work home — Floor pavements in Pompeii illustrate surveying technology

Pompeii continues to reveal details of ancient Roman life.

[Kiona N. Smith](#) - 12/7/2019, 7:00 AM

Decorative pavements in the floor of a recently unearthed Roman house in Pompeii offer a glimpse into the life and work of an ancient land surveyor. The pavements depict a stylized drawing of an ancient surveyor's tool called a groma, along with a diagram of a surveying technique and the plan of a construction project in Pompeii. So far, they're the only original Roman illustrations of the tools and techniques the Romans used to help build an empire and its infrastructure.

The land surveyor's house

Only a few metal fragments of a Roman groma exist today (also recovered from Pompeii), and archaeologists have found only a few images carved into surveyors' tombstones. Otherwise, we know the tool only from descriptions in medieval versions of ancient Roman surveying manuals.

The newly unearthed pavements at Pompeii suggest that those medieval copies were pretty close to the original ancient texts. An image on the floor of the entrance hall is nearly identical to illustrations in medieval copies of Roman texts, attributed to Roman surveyor Hygius and famed architect Vitruvius.

Colored tiles laid into the crushed terracotta pavement depict a circle with a square drawn inside. Lines divide the square into eight equal sections. In Hygius' and Vitruvius' texts, the image illustrates how to orient a building to one of the cardinal directions. On the floor of the house, the image shows how the house is oriented in relation to the four cardinal directions: one of the lines points along the length of the house, which faces northeast. Meanwhile, the corners of the square point north, south, east, and west.

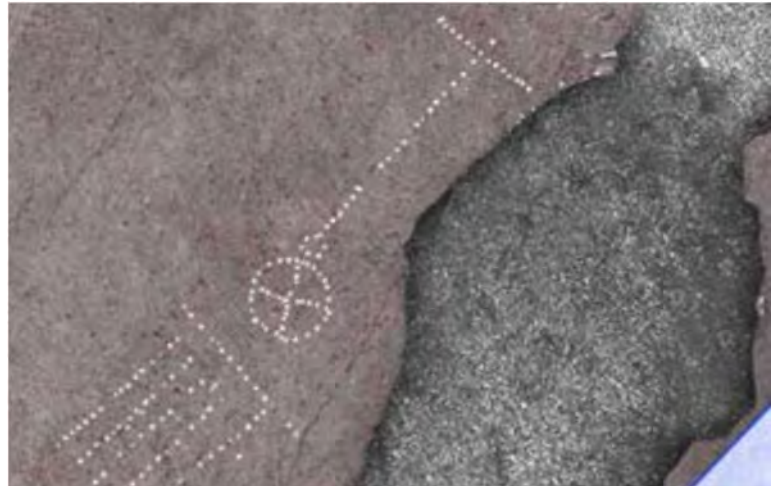
The image would have immediately told Roman visitors who owned the house and where he had earned the money to build it. By modern standards, that's an odd choice of welcome mat, but wealthy Romans often decorated the floors and walls of their homes with images of their professions. That's why archaeologists think the house may once have belonged to a land surveyor.

Tool of the trade

In a passage connecting the central atrium of the house to the garden, archaeologists found two more decorative images worked into the pavement. One seems to be the stylized image of a groma. Ancient Roman land surveyors and architects would have used a groma to divide farmland into carefully measured parcels called centuriations, to plan developments in cities like Rome and Pompeii, and to lay out the courses of aqueducts and roads.

For some reason, Hygius and Vitruvius didn't include illustrations of a groma in their texts, so modern scholars have to rely on their descriptions and on fragments of a real groma found at Pompeii. The instrument consisted of a set of crossed arms balanced at the end of a horizontal pole so they could spin freely around the center. Four weighted plumb lines hung from the ends of the arms. A Roman land surveyor would line up two of the plumb lines on a distant point and then use the four arms of the groma to calculate an angle in relation to that line.

That seems to be what's depicted in the pavement: a cross in a circle, at the top of a long straight line. "The artist had the problem of representing a three-dimensional object on a flat surface and with a relatively crude means of expression but succeeded in showing the fundamental fact," wrote Massimo Osanna, director of the Pompeii archaeological site, and his colleagues [in a recent pre-print paper](#). The rudimentary image might not scream "groma!" on its own, but in the context of other images related to surveying, it seems likely.



A person of unconventional taste

On the other side of the passage, an even more enigmatic design decorates the pavement: a set of four parallel lines, bracketed on two sides by an L-shape. According to Osanna and his colleagues, it's a 1:300 scale schematic of an insulae, or apartment block, constructed in Pompeii shortly before Vesuvius buried the city in ash and pumice. The L-shape represents the intersection of three of Pompeii's most important roads: the Via Stabiana, the Via del'Abbondanza, and the Via Nola. The two lines of the L-shape seem to be Nola and Abbondanza, while the central axis of the house itself represents the Via Stabiana.

It's tempting to draw the obvious conclusions: the owner of this house was a surveyor or architect in the final days of Pompeii, and he helped plan a major insulae development, which he was so proud of that he had his floor paved with the blueprint. But so far that's only speculation.

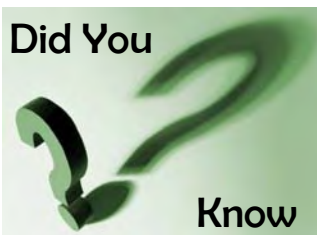
What we can say, though, is that the owner of the house had slightly unconventional taste. The pavement would have been a slightly unusual decorating choice, even for Romans. This kind of crushed terracotta pavement was usually decorated with simple, repeating geometric patterns. In this case, except for the surveying illustrations, the rest of the paved floor is blank.

Two other rooms contain a pair of mosaics portraying the mythical hunter Orion and his transformation into a constellation. The mosaics were striking enough to earn the house the nickname "House of Orion," and they're the only mosaic versions of the myth archaeologists have found so far.

But even the elaborate mosaics may be a subtle nod to the homeowner's profession: because surveyors often needed to align buildings with the rising or setting Sun, astronomy would have been an important part of a surveyor's knowledge. Even the Romans had a problem with bringing their work home.

- Shared by Gerry Miller, LLS; I came across this news article and thought it was interesting. I don't know if it is anything that could be used in a future TBM?

- Reprinted with permission: Ars Technica; <https://arstechnica.com/science/2019/12/floor-pavements-in-pompeii-illustrate-surveying-technology/>; The content may not be sublicensed to any third parties without Ars Technica's prior written approval.



That new licensees (LLS & LSIT) are invited to join NHLSA for the first year at no cost? In addition, if you are already a member, you will also receive one year's membership at no cost!



Congratulations to the most current LLS's and LSIT's

Join us in congratulating the following members on their passing the licensing and the LSIT exams in October 2019.

Douglas Lees LLS # 1045
 Jeffrey Greiner LLS # 1046
 Robert Weir LLS # 1047
 William Edwards LLS # 1048

Daniel Dadmun LSIT # 728
 Jose D. Reyes LSIT # 731
 Marinus Vander Pol III LSIT # 732
 Nicholas Sosa LSIT # 733

Member

congratulations

I Found It—Now What Is It?

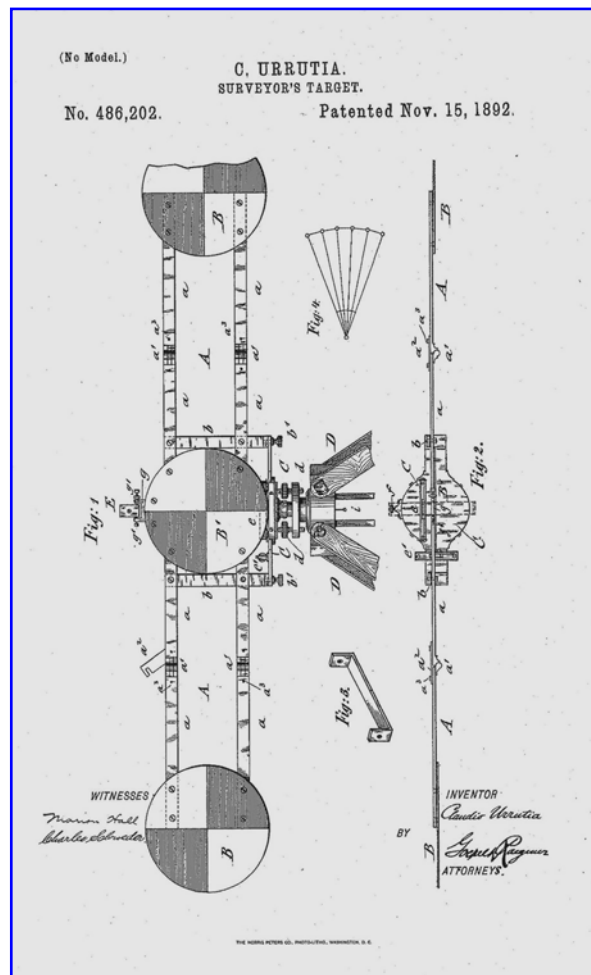
These two solid ruggedly built mystery items were seen at the 2019 Annual Meeting. If you think you can identify them, send your guess to Barbara at info@nhlsa.org And no, we aren't talking about Eric Salovitch and Mark Stevens. To win bragging rights for the month you must identify the heavy-duty items that Eric and Mark are leaning on.



I Found It – Now What Is It? Responses

Stan Prescott, Mark Stevens, and Kevin McEneaney correctly identified January's mystery item, which is a subtense bar.

Stan more precisely and correctly identified it as Urrutia's Telemeter Target. A quick internet search produced the original US Patent documents. Claudio Urrutia, of citizen of the Republic of Guatemala, patented his "Surveyor's Target" on November 15, 1892. Viewing the patent diagrams and subsequent description of his invention, it appears that the illustrator of the ad in last month's TBM did take some artistic license, as Mr. Urrutia intended the target to be mounted on a tripod or Jacob's staff to aid in the precision of distances derived by triangulation from angular observations made to the target. The diagram from the patent is shown to the right:



Hi Barbara!
 It looks like a Subtense Bar.
 Kevin McEneaney



Paul,
 I think it might be a type of subtense bar.
 Mark Stevens, LLS

Hi Barb.,
 The item appears to be Urrutia's Telemeter Target. See the attached picture.
 Stan Prescott LLS 504

WE ARE HIRING!



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Hancock Associates is hiring for our new Boston division of H.W. Moore Associates. Our Boston office is located conveniently on East Berkeley Street and we have parking! Candidates shall have experience with ALTA, existing conditions, Land Court, GPS, construction layout, settlement monitoring, etc. for high-profile commercial, residential and infrastructure projects.

• Survey Field Crew Chief

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- o Valid driver's license and willingness to travel
- o Position includes company truck

• Staff Surveyor

- o Minimum of 2 years of experience in fieldwork
- o Minimum of 1 year of office experience using AutoCAD Civil 3D
- o GPS experience and SIT Certification a plus
- o Degree in surveying or related field
- o Proficiency with research, calculations and CAD drafting
- o Ability to work outside on survey crew
- o Experience in Boston a plus

Want to get out of Boston?

Hancock Associates is hiring for our Marlborough office. Our office is located conveniently on Elm Street off Route 495 in a nice suburban environment with parking. Candidates shall have experience with ALTA, existing conditions, Land Court, GPS, subdivisions, construction layout, lot stakings, plot plans and septic systems for development projects including commercial, residential and infrastructure.

• Staff Surveyor

- o Minimum of 2 years of experience in fieldwork
- o Minimum of 1 year of office experience using AutoCAD Civil 3D
- o GPS experience and SIT Certification a plus
- o Degree in surveying or related field
- o Proficiency with research, calculations and CAD drafting
- o Ability to work outside on survey crew

• Project Surveyor

- o Minimum of 5 years of experience
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- o P.L.S. license a plus
- o Ability to perform Staff Surveyor tasks (listed above) plus client contact, supervision of field crews, etc.

Qualified candidates should send a cover letter with salary requirements along with a resume to:
Hancock Associates, 185 Centre Street, Danvers, MA 01923 or HR@HancockAssociates.com

To learn more about Hancock and other career opportunities, visit www.hancockassociates.com

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