



The Cornerpost

Journal of the Vermont Society of Land Surveyors
Volume 56, Number 2 | Summer 2025

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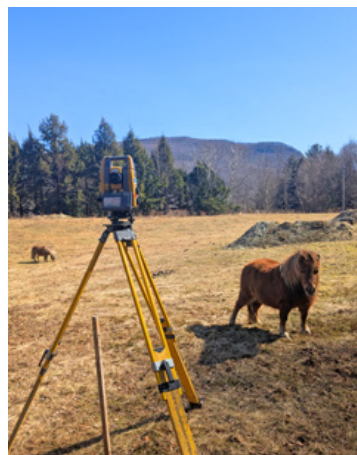
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SEND IN YOUR NEWS

The success of *The Cornerpost* depends on contributions from all of our members. Please consider submitting something for an upcoming issue. Send your articles, news and photographs to birgit@vsls.org. All ideas are welcome!



ON THE COVER

This month's cover photo comes from Evan Johnson, a staff surveyor at McCain Consulting Engineers in Waterbury. Evan was doing a job in Richmond when a four-legged friend decided to check the instrument height. Luckily it passed muster.

Send your photo for the cover. If you've snapped a photo in your travels that you think would look good for the cover of *The Cornerpost*, please send it to birgit@vsls.org. We're always happy to feature scenes from different parts of the state.



PRESIDENT'S CORNER



Scott Taylor, LS, contributed this picture from May 2004 of VSLs's intrepid president climbing over a fence. "Randy and I were doing a survey of a residential property in downtown Burlington," Scott explained. "Every property in the entire block had a fence around it, so we brought two step ladders to get over the fences. Put one on each side of the fence we had to get over and saved ourselves a lot of walking."



CAN YOU HELP?

We frequently get contacted by the public for assistance with a wide variety of items. We would like to increase the pool of people who can answer questions or talk to people interested in getting into surveying. If you can help, please use the QR code to complete a sign-up form, or email birgit@vsls.org.



MARK YOUR CALENDAR

VSLs Fall Conference
September 19, 2025
The Eagles, Aerie 793
South Burlington, VT

SUMMER IS WINDING DOWN as the relentless grind of the job persists, but no matter how busy we get, it's important to leave time for friends, family, and colleagues. With that in mind, the society has a renewed focus on hosting some social events, such as a BBQ, to get together and maybe get some new people interested in surveying and just hang out. Please invite family, a coworker, younger staff, or someone that might want to learn about the society. These events will have a survey flair but are intended as a social event for all, in order to spread the word of who we are and give further purpose to the society beyond just education.

As I write this column, the editors and people behind the scenes that do a spectacular job making our magazine shine are no doubt cursing my lack of timeliness on this article. Instead of being a good writer fighting writer's block, I have been toiling away on the beautiful WACR rail line, working on old timber bridges in need of an upgrade. One of the things I love most about surveying is that it's taken me to so many different places and allowed me to experience so many different things. I was able to secure the assistance of a hyrailer (a pickup truck with hydraulic RR wheels) that we rode down the tracks each morning to a new bridge. Most of the general public will never get to experience this, and for me, it's just another day.

Part of the reason I got involved in the board was to encourage young people to join the society, to become surveyors, and to leave the society in a better place after I am gone. This is my usual push to bring younger staff to the seminars, but also to encourage people to get involved. I am in my second term as President, and there are opportunities right now to get involved in the governance of our society (see page 26). I can think of no better way to help out our profession, or to effect some change to keep pace with the times.

I have often written of how technology is changing our profession. My latest example was on the Hudson River in Troy, N.Y., where a boat was manning a remote submersible vessel. These were surveyors pioneering photogrammetry underwater to map a scour that is destabilizing a seawall — how cool is that? Technology has also made it cheaper and easier to get continuing ed online, but that doesn't replace the connections we make at in-person seminars; it just reinforces the need to provide more than just classes as a society.

Keep an eye out for upcoming social events. I hope to see you at one of these and at the Fall Conference on September 19 at the Eagles in South Burlington. 📍

Thank you for reading,

Randy Otis, LS



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Several Initiatives Underway at National Level

IT'S HARD TO BELIEVE that half of August is already behind us and we are looking to our fall meeting. The fall NSPS meeting is being held in Minneapolis on October 15 & 16. We are trying to fit everything into two days now instead of two-and-a-half days, and the way we are accomplishing that is by having monthly town meetings on zoom, so that committees can share what they have done or are trying to get done every month instead of waiting for our business meetings.

At right are some of the initiatives that are being discussed. We'll be getting updates and making more progress on these during the fall meeting, and I'll give another update in the next issue of *The Cornerpost*.

For now, enjoy the rest of your summer and see you at the VSLs Fall Conference in September!! 🍷

PROJECTS BEING DISCUSSED



NGS is rolling out the modernized National Spatial Reference System (NSRS) – check the NGS web page for more information.



NSPS is updating the Survey Body of Knowledge and Surveying definitions and terms.



NSPS is working on a Speakers Academy to train the next generation of presenters for affiliate conferences and public events. It will be partly online and partly in person.



NSPS is putting out more content on social media to help make people aware of surveying profession.

For more info

To learn more about what's going on at the national level, check out Surveyor Says!, the NSPS podcast:
» surveyorsays.podbean.com

Minneapolis is the site of the upcoming fall NSPS meeting, Oct. 15 & 16, 2025.

Making the News

WCAX Story Features Opportunities and Challenges in the Land Surveying Profession



SOUTH BURLINGTON, Vt. (WCAX) - Whether building a home or putting up a fence, everyone depends on land surveyors to find out exactly where property lines are. But without any Vermont surveying degree programs, students have to chart their own course.

In the business for more than 30 years, Joe Flynn is the vice president of the Vermont Society of Land Surveyors.

"It's a challenge, but every day is usually different," he said. And that's something he's come to enjoy over his career.

One thing you won't find on a map of Vermont is a state school offering a degree program for surveying.

Flynn says it's not all bad, with many online programs filling the gaps. "You can do this while you work, you can do it at night. So, have we lost a step because we don't have it in-house? Yes, but we gained a big step because there are online programs," he said.

Without an associate's or bachelor's degree in land surveying, those eyeing the career must work for six years in the field to build a portfolio and pass the state surveying exam. Flynn says data from the National Council of Examining Engineers and Surveyors shows promising numbers for those looking to get into the field. Since COVID, we're seeing a steady increase. We're seeing more

numbers now taking the surveying exam and going for licensure," Flynn said. And he says the job now includes more responsibilities than just setting boundaries.

"Surveying doesn't end with boundary. Surveying now incorporates construction layout for high-rise buildings, dams, drone work. Now, you're flying a plane every day."

Despite the technical gains, some aspects of the job remain the same, including resolving the kind of land disputes that might involve a person building a fence on their neighbor's land.

With those types of issues, Flynn says one thing is clear: "We do not rectify the situation, we just find the facts on the situation," he said. 🌍

Published: May 9, 2025 • Story by John McMahon

Scan the QR
code to watch
the segment.



Education Foundation Awards 2025 Scholarship

After several years without receiving a scholarship application, the VSL Education Foundation was thrilled to receive one from a student as worthy as Nicholas Stein. A native of Waterford, Vt., Nick completed his associate's degree at SUNY's Ranger School in May and will earn his bachelor's degree in the coming year.

Fun Facts

- ✓ The Education Foundation has awarded 28 scholarships since its inception in 1973.
- ✓ Michael Raboin, VT LS #508, was the first scholarship recipient in 1973.
- ✓ Today, our scholarship award recipients receive \$3,000.
- ✓ The 2025 award will be presented at the Fall Conference.



Members of the Education Foundation



MEMBERS AT LARGE

Scott Taylor, LS
Ethan Gilmour, LS
Robert Holt, LS

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Nate Yager, LS

From the scholarship winner

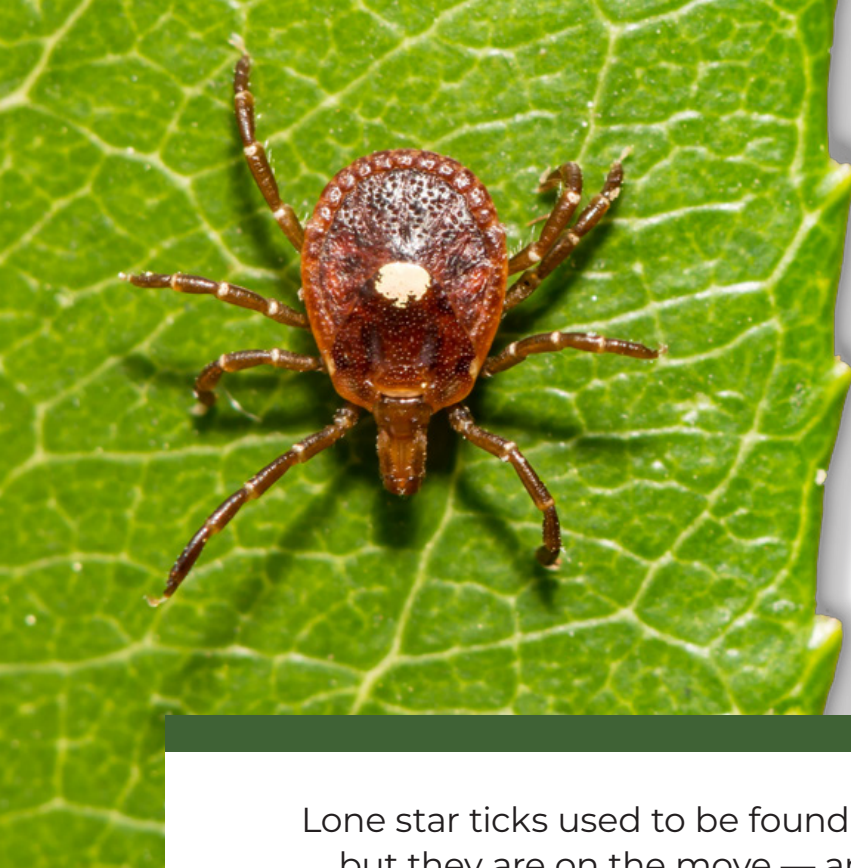
MY NAME is Nicholas Stein, and I am currently a student at the SUNY College of Environmental Science and Forestry. In May 2025, I proudly graduated from the SUNY ESF Ranger School with an Associate in Applied Science degree, specializing in Land Surveying Technology.

My interest in land surveying stems from a deep appreciation for the outdoors and a strong interest in solving complex problems. I am drawn to the field not only for the opportunity to work in natural environments but also for the precision, responsibility, and technical expertise the profession demands.

As I continue my education and grow in this field, I am honored to be recognized by professionals in the surveying community and look forward to contributing to the future of the profession. I am available for summer employment in 2026 as I finish my Bachelor's Degree with SUNY ESF, and I am excited to explore new opportunities.

"I am honored to be recognized by professionals in the surveying community and look forward to contributing to the future of the profession."





LONE STAR TICKS

» OUR NEW HAZARD IN THE WOODS

Lone star ticks used to be found mostly in the Southeastern U.S., but they are on the move — and their numbers are growing. They're becoming more and more common in northern states, and even parts of Canada, where they were once scarce.

What Can Happen if a Lone Star Tick Bites You?

BACTERIAL INFECTION

Lone star ticks are the main vector for a few types of bacteria that can cause the disease ehrlichiosis. The Centers for Disease Control and Prevention usually receives reports of more than a thousand cases of ehrlichiosis each year, with a record of more than 2,000 cases reported in 2019.

Although that's likely a significant underestimate of the true number of cases, it's unclear to what extent people may experience asymptomatic or mild cases of the disease. Mild cases of ehrlichiosis resemble a number of other tick-borne diseases, causing symptoms such as fever, headache, muscle ache, nausea and vomiting, and rash, which is more common in children than in adults.

The antibiotic doxycycline, which is also used to treat Lyme, can be very effective. But if treatment is delayed, ehrlichiosis can be serious. Late-stage problems can include damage to the brain or nervous system, respiratory failure, and organ damage. In about 1 percent of cases, ehrlichiosis can be fatal.

Lone star ticks are also one of several tick species that can transmit the bacteria that cause tularemia, another rare but potentially fatal illness. Another disease transmitted by lone stars, called southern tick-associated

CONTRIBUTED BY GAYLE BURCHARD, LS

rash illness (or STARI), resembles Lyme disease, but its cause—whether a bacteria or something else—is unknown.

VIRAL INFECTION

Lone star ticks are thought to be the primary vector of an emerging tick-borne virus, Heartland virus. About 60 cases of Heartland virus had been documented as of 2022, mainly in Midwestern and Southern states, according to the CDC. A few of those cases have been fatal, says Gonzalo Vazquez-Prokopec, PhD, an associate professor in the department of environmental sciences at Emory University in Atlanta, who studies lone star ticks and Heartland virus.

It's totally unknown, however, how many people may be experiencing mild or asymptomatic illness due to undetected Heartland virus. That's in part because testing for the pathogen isn't available anywhere except the CDC. Doctors usually order testing only if standard tick-borne disease treatments like doxycycline fail to work.

One of the key mysteries Vazquez-Prokopec and other researchers are trying to solve is which animals are the "reservoir" for Heartland virus—essentially, the animal from which lone star ticks pick up the pathogen and go on to spread it to humans. With Lyme disease, white-footed

mice serve as the reservoir in nature and knowing this helps researchers predict how the disease will spread.

MEAT ALLERGY

This may be the lone-star-induced health problem you're most familiar with, as awareness of it has spread in recent years. Scientists aren't sure why, but in some cases, a bite from a lone star tick can trigger an allergy to a protein in red meat, called alpha-gal. (Not everyone who receives a bite from a lone star tick will develop the allergy, and it's also not clear whether alpha-gal allergy can be caused by triggers other than a tick bite.)

Alpha-gal allergy can be difficult to diagnose because unlike essentially every other allergy, the reaction can be delayed by several hours after eating red meat. And though different people who develop the allergy will experience different levels of sensitivity to the protein, alpha-gal can also be found in other products made from mammals, including dairy products, gelatin, and even some medications. This can add to the difficulty of pinpointing the cause of a reaction. Sensitivity to alpha-gal varies, and the protein is also present in dairy, gelatin, and some medications made from mammals.

Where Lone Star Ticks Are Spreading

Lone star ticks have long been firmly established in the Southeastern U.S. In recent decades, however, their numbers have been increasing in Midwestern and Northeastern states. Between 2017 and 2021, according to CDC data, nearly half of reported ehrlichiosis cases were in five states: Arkansas, Missouri, New York, North Carolina, and Tennessee.

Even in some areas where blacklegged ticks are more widely known (and feared), lone star ticks may now be more common. In New Jersey, for example, people who submitted ticks for identification in Monmouth County between 2006 and 2016 were much more likely to send in lone star ticks than blacklegged ticks, according to a study Egizi published in the journal PLOS One. And other research shows lone star ticks have also exploded in population in areas of Delaware, New York, Connecticut, and more.

Some scientists explain this expansion in terms of climate change: A warming climate is making larger swaths of the northern U.S. more hospitable to lone star ticks. That may be part of it. But more recent research

suggests that lone star ticks may, in fact, be reestablishing themselves in high numbers in areas where they were once common, before forests were clear-cut for agriculture in the 19th century. According to Egizi's research, early naturalists recorded frequent sightings of lone star ticks in the late 18th and early 19th centuries, which suggests that they were common at that time in parts of New York, New Jersey, and Pennsylvania—before largely disappearing from these areas.

Deer, the main source of food for lone star ticks, are likely a major player in this story. Deer populations plunged in areas where forests were largely eliminated, but they made a comeback in the 20th century as some former farms became forested again. It seems the deer brought lone star ticks with them.

How to Protect Yourself

One of the first words entomologists tend to use when talking about lone star ticks is "aggressive."

Unlike blacklegged ticks, which often perch themselves on a tall blade of grass or branch and wait to hitch a ride as you pass by, lone star ticks will actively chase you down. Suppose you sit down on the ground for a picnic in a lone star tick area. Lone star ticks, sensing the carbon dioxide you're emitting, will crawl across the ground to reach you.

Thus, when you're in lone star tick territory, it's important to take precautions to keep them from biting you. As with other tick species, applying an effective insect repellent to any exposed skin is an important measure.

Another very useful anti-tick measure is to wear clothing treated with the insecticide permethrin. Permethrin will kill ticks, not just repel them. Be particularly careful to treat your shoes with permethrin because ticks often crawl upward from the ground, so treated shoes can be a barrier to reaching your skin.

If you do find a tick crawling on your skin or get bitten by one, it can be difficult to figure out which kind it is. There's a lot of overlap between lone star tick and blacklegged tick habitats. And while the markings on adult female ticks of the two species are different enough that you might be able to distinguish between them, the smaller nymphs and larvae can be much harder to identify.

If you notice a large number of tiny ticks crawling on you at the same time, though, those are likely to be lone stars. Carry a lint roller, which can be used to pull off a whole lot of tick larvae at a time. 🕸



» Unlike blacklegged ticks, which often perch themselves on a tall blade of grass or branch and wait to hitch a ride as you pass by, lone star ticks will actively chase you down.

What's in a Name?

PART 2



Paul's first article on this topic, above, was published in the Spring 2020 *Cornerpost*. To see it, use the QR code or: Go to [vsls.org](https://www.vsls.org); look under **Resources**; select **Cornerpost Magazine**; select **Spring 2020**.

Take a picture of the QR code with your phone to see the first article.



Research and curiosity lead this inquisitive surveyor to the discovery of another oddball name.

BY PAUL HANNAN, LS

Some readers may recall a *Cornerpost* article I wrote about five years ago chronicling unusual names I'd gleaned from the Vermont land records over nearly fifty years of searching deeds. Over the ensuing years I've gathered a few more odd names, but the real corker was one that I found in a museum not far from my new home in Western Massachusetts.

→ While enjoying the displays of furniture, pottery and sundry other relics of the “Pioneer Valley” at the Flynt Center of Early New England Life, I stumbled on a display case of lovely old brass tools. Of course, a couple of fixed-sight, brass surveyor’s compasses caught my attention immediately. Unlike many museums which describe their pieces within the display case, the Flynt places a numbered card near the object and directs you to available computer terminals to learn more.

Taking that extra step of logging into a computer for details might deter some from their knowledge quest, but not a devoted surveying nerd like me. My effort was immediately rewarded with a new and startling addition to my trove of unusual names: Philander Noble was the compass’ maker.

Really? Some presumably loving parents saddled their sweet little bundle of joy with the name “Philander” at birth?!?!? Desperate to give Daniel and Anna Noble the benefit of the doubt, I searched extensively for a meaning of the word “philander” that does not carry the connotation of what we might politely call “fidelity-challenged.” (Not naming names, but several US presidents come to mind as worthy of being labeled philanderers: 35, 42, 45/47.)

My neighbor is a research librarian at NYU. Surely, she could find a more virtuous meaning for the word. Nope! The politest definition she came up with was: “to engage in a casual sexual or romantic encounter.” OK, full disclosure, she did find a reference to a “dusky wallaby” from New Guinea, but somehow, I doubt Daniel and Anna were especially enamored of wallabies.*(see footnote)

I opined in “What’s In a Name?” that sending young Merrily Rushfore off into the world with such an ebullient moniker was an act of faith and likely a parental blessing. So, what does that say about the name “Philander” as a launch into life?

Well, our Philander started “nobly” enough, becoming skilled as an engraver, silversmith, clockmaker and inventor in the “frontier” town of Westfield, Massachusetts – a bit like Paul Revere minus the lanterns. Born there in 1772, by 1800 he boasted of having invented a specialized machine for grinding gun barrels. Perhaps being swindled

→ Ok, further full disclosure: the word “philander” comes from the Greek and can also mean “lover of men.” That definition may or may not have also had socially challenging connotations in early 19th century New England. Regardless, my librarian friend’s research indicates that the more common meaning of “philander” was well established in literature and usage by the time of Philander’s birth.

“Some presumably loving parents saddled their sweet little bundle of joy with the name ‘Philander’ at birth?!?!? Desperate to give Daniel and Anna Noble the benefit of the doubt, I searched extensively for a meaning of the word ‘philander’ that does not carry the connotation of what we might politely call ‘fidelity-challenged.’”



The Flynt Center of Early New England Life is located in Deerfield, Mass.



A compass created by Philander Noble



Philander Noble worked as a clockmaker while living in Westfield, Mass. He crafted the clock here, which bears a back back plate engraved in script, "Philander Nobel Westfield May 1830." His skills as a craftsman led him to other occupations, including engraver, silversmith, and eventually a counterfeiter!



"The summer of 1807 found Noble huddled in a cave in Plymouth, Vermont with three accomplices, each man engaged in a different task: Noble engraved plates while the others prepared the ink, fed paper into the rolling press, and forged the official signatures that appeared on the bank notes."

out of credit and compensation for that invention by his then-employer was the catalyst for where his career headed next:

As chronicled in Ben Tarnoff's book "Money-makers; The Wicked Lives and Surprising Adventures of Three Notorious Counterfeiters":

"The summer of 1807 found Noble huddled in a cave [in Plymouth, Vermont] with three accomplices, each man engaged in a different task: Noble engraved plates while the others prepared the ink, fed paper into the rolling press, and forged the official signatures that appeared on the [bank] notes."⁽¹⁾

Yup, Philander harnessed those metalworking and engraving skills and took to counterfeiting. His skills were certainly key to his sporadic success in this new trade, but, as Tarnoff points out, these were fertile times for counterfeiters. With no national currency yet adopted by the newly minted United States, by 1816 there were literally hundreds of chartered banks issuing notes – some with questionable backing – that circulated as legal tender throughout the states. The sheer number of types of notes made it difficult for an ordinary creditor in, say, Connecticut to authenticate a counterfeit Hagerstown Maryland Bank note.

Given our chilly recent history with England (think: Revolution; pending War of 1812) British Canadian authorities were not exactly cooperative partners in enforcing their neighbor's counterfeiting laws. That helped make southern Quebec ground zero for the counterfeiting craze that swept the era before standardized currency. By the summer of 1809, Philander had migrated north from Plymouth, VT and was plying his new craft in the Niagara Falls District of "Upper Canada" turning out notes from the "Columbia Bank" – an American institution.

Notwithstanding the look-the-other-way policies of the British authorities regarding counterfeited US bank notes, Philander managed to get arrested, tried and convicted – in Canada – of "conspiracy to defraud" and sentenced to six months in jail, a £20 fine and "pillory." (Had he been convicted of forging Canadian notes he could have been sentenced to "death without benefit of clergy.") The record is silent about exactly how much time Philander stood with his head and hands locked in a wooden structure and subjected to public ridicule but suffer the pillory he did and, after doing his six months time, his £20 fine was commuted.

Off he went to resurrect his interrupted career.

In May of 1816, we find Philander in, or perhaps fleeing from, Lancaster, PA where he is described in the Lancaster Intelligencer as:

"Philander Noble, formerly well known as a counterfeiter to the eastward and an engraver for the counterfeiters. He is about 5 feet 10 inches high, corpulent, bald headed, fair hair, cut short; about 45 or 50 years of age, is fond of grog, and supposed to be a native of one of the eastern states."

By June of 1816, the Greenfield (MA) Recorder reports that Philander has been in front of the Hon. George Bliss, Esq, and is apparently being held for lack of \$2000 bail.

According to the Recorder: “It appears he has acted the part of an engraver to the gang.” His alleged accomplice, James (alias) Anson Smith was also being held after authorities found \$960 in counterfeit bills on him. At a much younger and wiler 25 years of age, Smith managed to “...escape from a room in which were ten or twelve persons, took to a swamp and has not since been heard of.”

Given that less-than-flattering description of our hero in The Lancaster Intelligencer it seems clear that Anna Owen, Philander’s second wife, didn’t marry him for his charm and good looks, but marry him she did on March 28, 1817. I would like to credit Anna with having such a profoundly positive influence on Philander that he mended his errant ways settled back in Westfield and lived happily ever after as a clock and compass maker. And perhaps that’s exactly how he lived out his days until his death in 1845. I have in fact seen an antique clock dealer’s listing and pictures of a stately grandfather clock documented as having been crafted by Philander in May of 1830. And of course, the brass compass pictured here was made by Philander while wedded to Anna. In fact, I have found nothing to sully his name after marrying her...well...almost nothing...

There is this little clipping from the September 22, 1838 issue of the Maumee City (Ohio) Express. The “notice” is dated August 11, 1838 and announces a writ of attachment “against the goods, chattels, rights, credits, moneys and effects of Philander Noble, an absconding debtor.” No telling what debt Wm. Meeker, the Swan Creek Township Justice of the Peace, insisted Philander owed “D. Hollinshead” but at least they didn’t put our Noble-man out of the compass making business. Barely a year later – October, 1839 – Philander created the handsomely engraved surveyor’s compass housed at the Flynt Center in Deerfield, MA.

So, What’s In a Name? The question remains. Nothing I’ve found suggests Philander’s libido was behind his illicit dalliances – ego maybe, greed certainly, but not libido. So maybe he beat the odds of being shaped by his name. On the other hand, I can’t help thinking there’s an irony to be found in a common idiom from the legal profession: the law is a jealous mistress – she’s certainly one mistress to whom Philander’s bonds of fidelity were never very strong. 🕒

REFERENCE FOOTNOTES:

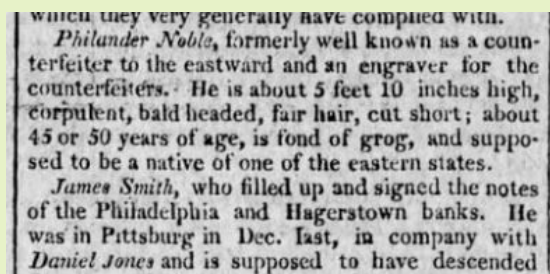
“Moneymakers: the wicked lives and surprising adventures of three notorious counterfeiters” Ben Tarnoff; Penguin Books; 2011

“Criminal Law in Upper Canada a Century Ago” William Renwick Riddell; Journal of the American Institute of Criminal Law and Criminology; Vol 10 No. 4 (Feb., 1920); Northwestern University Pritzker School of Law.

Delaney Antique Clocks, West Townsend, MA website: <https://www.delaneyantiqueclocks.com/clocks/maker/philander-noble-westfield-and-pittsfield-massachusetts>

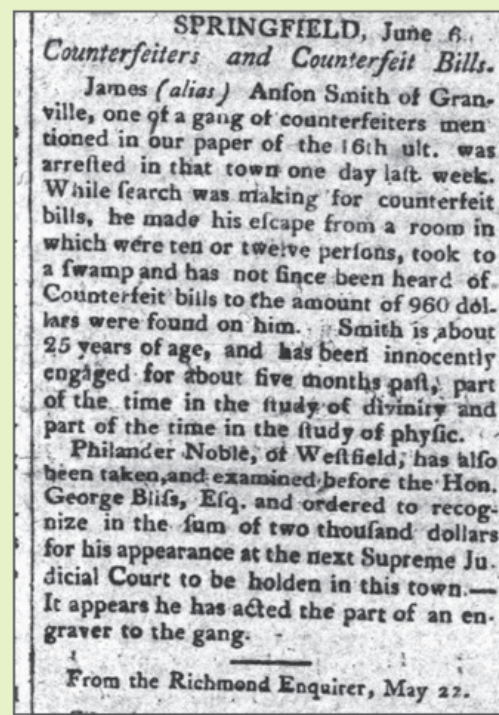
Special thanks to Deb Verhoff, librarian extraordinaire and Paul Gillies, scholar of all things legal...and some not so legal.

Regional papers documented the hijinks – and court notices – of our hero over the years.



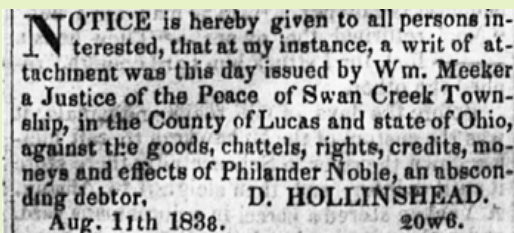
which they very generally have complied with.
Philander Noble, formerly well known as a counterfeiter to the eastward and an engraver for the counterfeiters. He is about 5 feet 10 inches high, corpulent, bald headed, fair hair, cut short; about 45 or 50 years of age, is fond of grog, and supposed to be a native of one of the eastern states.
James Smith, who filled up and signed the notes of the Philadelphia and Hagerstown banks. He was in Pittsburg in Dec. last, in company with Daniel Jones and is supposed to have descended

→ A clip from Pennsylvania's Lancaster Intelligencer, May 6, 1816.



SPRINGFIELD, June 6.
Counterfeiters and Counterfeit Bills.
James (alias) Anson Smith of Granville, one of a gang of counterfeiters mentioned in our paper of the 16th ult. was arrested in that town one day last week. While search was making for counterfeit bills, he made his escape from a room in which were ten or twelve persons, took to a swamp and has not since been heard of. Counterfeit bills to the amount of 960 dollars were found on him. Smith is about 25 years of age, and has been innocently engaged for about five months past, part of the time in the study of divinity and part of the time in the study of physic.
Philander Noble, of Westfield, has also been taken, and examined before the Hon. George Blifs, Esq. and ordered to recognize in the sum of two thousand dollars for his appearance at the next Supreme Judicial Court to be holden in this town. — It appears he has acted the part of an engraver to the gang.
From the Richmond Enquirer, May 27.

→ An article in the Greenfield, Mass., newspaper, The Recorder, on June 11, 1816



NOTICE is hereby given to all persons interested, that at my instance, a writ of attachment was this day issued by Wm. Meeker a Justice of the Peace of Swan Creek Township, in the County of Lucas and state of Ohio, against the goods, chattels, rights, credits, moneys and effects of Philander Noble, an absconding debtor,
D. HOLLINSHEAD.
Aug. 11th 1838. 20w6.

→ A notice in Ohio's Maumee City Express, September 22, 1838.

Life-Time Continuing Education Waiver with Academic Education

Should land surveyors with academic degrees have to meet continuing education requirements?



This is the twelfth article I have prepared in the series offering thoughts on professional practice and education. In this article I am going to reflect on formal education and continuing education requirements.

At the outset, I must point out the elephant in the room. I acknowledge that I hold a Ph.D. and a juris doctorate. I mention this since some will accuse me of self-serving when reading this article. I'm not going to surrender my degrees in order to appear unbiased. I was never known to shy from controversy in living my life or my writing. My contact information is on the web. Feel free to write and chastise me. Don't expect much self-reflection at my age. The sand in my life's hour glass is almost run out. At my age, changing course or my opinion is not likely to happen.

Let me get to the point of this article. Many states have adopted continuing education requirements for re-licensing. This article focuses on the disconnect between state continuing education regulations and academic education achievements.

In this article, I wish to focus on the fact that all states with continuing education requirements have decoupled the requirements for continuing education from academic education other than allow continuing education credit for an academic course taken in a renewal cycle. Specifically, states that require continuing education make no allowances for the achievement of formal academic education. By way of example, a state will require a certain number of professional development hours a year for all licensees regardless whether the licensee has no degree or a doctorate in the profession. This makes no practical sense, at least to me. Let me explain.

As a general rule, a one-credit academic course is worth fourteen professional development hours. A typical bachelor of science degree in the profession has at least 30 credit hours in focused professional course work. A master's degree in the profession has an additional 30 credit hours focused on professional course

topics. Finally, a doctorate has another 60 credit hours above the master's degree focused on professional course topics. Therefore, a licensee with a master's degree has earned the equivalent of 420 professional development hours. A licensee with a master's and doctorate degree has earned the equivalent of 1,260 professional development hours. For a state that requires fifteen professional development hours a year, the licensee with a doctorate has achieved the equivalent of 84 years of continuing education. Unless the licensee stretches their formal academic education coursework over their lifetime, the licensee will only get to claim their formal academic education courses for perhaps two to three license renewals. Perhaps another renewal period can be claimed if the state allows some carryover of continuing education hours.

Unless a licensee with a master's degree or doctorate develops amnesia or dementia, the licensee with formal academic degrees will retain a significant portion of the knowledge from their formal education throughout their professional career. Continuing education regulations should recognize this achievement and give life-time credit for academic education achievements.

I offer four reasons to permit academic education achievements to allow for life-time credit for continuing education.

First, if continuing education is meant to foster professional development, individuals with academic degrees, especially advanced academic degrees, have achieved professional development and knowledge well beyond the typical licensee.

Second, the licensee that has pursued and obtained academic degrees, especially advanced degrees, has shown a commitment for lifelong learning. The licensee will not likely put that commitment aside after completing the degree. The licensee will not need to be coerced to continue life-long learning.



“Unless a licensee with a master's degree or doctorate develops amnesia or dementia, the licensee with formal academic degrees will retain a significant portion of the knowledge from their formal education throughout their professional career.”

Third, giving life-time credit for degree achievements will encourage licensees to have a focused approach toward meeting continuing education requirements. Completed academic courses that can be used toward a degree and also substitute for continuing education throughout a licensee's lifetime means that time and money spent on course work will save the licensee time and money later.

Finally, recognition of academic degrees for continuing education will encourage licensees to obtain degrees. States that have no degree requirements for licensure will encourage surveyors to obtain a degree by awarding life-time continuing education credit for a degree. All states can encourage licensees to obtain an advanced degree by permitting life-time credit for advanced academic education culminating in a degree.

I will add that many states already couple academic degrees with experience requirements. Those individuals seeking licensure with formal academic degrees often have to show less experience in order to obtain licensure.

Having given reasons for life-time continuing education credit for academic degrees, I now offer advice by suggesting regulations to be adopted using the same or similar wording as follows:

Licensees with at least thirty credit hours of surveying or related course work and a bachelor of science degree may waive half the continuing education requirements for renewal of licensure for every renewal period.

(Note any bachelor of science degree with ABET accreditation in surveying, geomatics, or similar title will be presumed to meet the requirement of thirty credit hours.)

Licensees with a master of science degree along with forty-five credit hours in surveying or related course work may waive three-fourth of the continuing education requirements for renewal of licensure for each renewal period. (Undergraduate and graduate surveying or related course work is counted toward the forty-five credits.)

Licensees with a doctorate degree along with sixty credit hours in surveying or related course work may waive all continuing education requirements for renewal of licensure for each renewal period. (All undergraduate and graduate surveying or related course work is counted toward the sixty credits.)

I will close by suggesting that the appearance of a conflict of interest in advocating this recognition, is really not a conflict of interest if the reader delves into my life. Having lived to the age I find myself at, I recognize that I will be long dead before regulations are changed and there would be an easing in continuing education requirements that could affect me because of the degrees I have. 🌍

— BY KNUD E. HERMANSEN,
PLS, PE, PHD, ESQ.

To find more articles by Knud Hermansen, or visit umaine.edu/svt/faculty/hermansen-articles.

VSLS Kicks Off Social Events for New Surveyors

BY EVAN JOHNSON

The Vermont Society of Land Surveyors is looking to connect the state's newest surveyors.

Following last spring's society meeting and learning about the efforts of the New Hampshire Land Surveyors Association's efforts to attract, train, and retain the next generation of land surveyors in the Granite State, the VSLS executive committee has resolved to start a similar initiative. Starting this fall, VSLS will begin a series of casual meet-ups at a restaurant or bar around the state. The intention of this group will be for new surveyors to meet, network, share insights or mentorship opportunities, and build community.

There is no age requirement. The new effort is intended for the state's newest surveyors, including those who have recently achieved licensure or are early in their surveying career.

Those interested can get in touch with Evan Johnson at evan@mccainconsulting.com for more information. 🌐

» To join the next event, please contact Evan Johnson at evan@mccainconsulting.com



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A Reckoning with the Rwenzori

3D model maps of disappearing tropical glaciers reveal a stark warning for the cultural future of Uganda's Bakonzo people

Nestled on the border between Uganda and the Democratic Republic of Congo, the Rwenzori Mountains—a UNESCO World Heritage site—are home to some of the world's last tropical glaciers, masses of ice that the U.N. predicts will all disappear by 2050 if current rates of warming continue.

One of Earth's most remote and dramatic landscapes, the mountains have three main peaks, Mt. Stanley, Mt. Baker, and Mt. Speke. Mt. Stanley, with its highest peak at 5,109 meters (16,761 feet), is Africa's third tallest mountain, with snow-capped summits and glaciers remarkably close to the equator. The ice on Rwenzori is the highest and most permanent source of the River Nile and constitutes significant water catchment areas in Uganda—relied upon by five million people, including the Bakonzo people.

The Bakonzo, who live at the foot of the mountain range, hold deep spiritual beliefs that are intricately connected to the natural landscape, particularly the snow-capped peaks. For centuries, a core belief for Bakonzo is that their gods, Kithasamba and

Nyabibuya, reside in the ice of Rwenzori, a house that has been melting away. In fact, both Mt. Speke and Mt. Baker have both lost their glaciers—Mt. Baker's loss was confirmed in 2022. Only Mt. Stanley's glacier remains.

The altitude data from Project Pressure's 3D model of Mt. Stanley indicates the average melting point has reached the top of the glacier.

Knowing the glacial retreat would continue on Mt. Stanley as well, Project Pressure, a climate charity, led a groundbreaking expedition in collaboration with UNESCO and the Uganda Wildlife Authority (UWA) to the Rwenzori. The goal was to survey all three mountains to both create the first-ever 3D model of Mt. Stanley's glaciers and install long-term monitoring equipment. The team returned with critical mapping data, scientific measurements, comparative imagery, and a stark warning about the future.

An Expedition of Firsts

Leading this expedition was Project Pressure's director Klaus Thymann, a Danish explorer, environmental scien-

tist, and award-winning photographer who has led expeditions since 2012 to the Rwenzori Mountains to track the demise of the tropical glaciers.

Project Pressure's data from Mt. Stanley's glacier reveals a loss in surface area of 29.5 percent between 2020 and 2024.

"In a world where the impact of climate change is not uniformly distributed, acquiring data on glacier recession in equatorial regions has become paramount," says Thymann. "This is invaluable for comprehending local warming trends and their consequences to help local communities adapt."

The 2024 expedition was designed to not only produce a 3D model of the last remaining glacier on the Stanley Plateau to visually preserve the historic record of the ice and its retreat over time, it would also install time-lapse cameras to allow local people to monitor change. Building on data from Thymann's expeditions in 2012, 2020, 2022, and decades-long glaciological work, the 2024 mapping project would represent the most comprehensive record of the region's glacial decline.

Key to creating the 3D photogrammetric model was a multi-source solution of geospatial technologies, including GNSS position-



Project Pressure's Klaus Thymann works with Kule Jocknus Bwabu Solomon, Muhindo Rogers of Uganda Wildlife Authority, and glaciologist Heidi Sevestre, to set up precision points for photogrammetry survey.

ing, ground penetrating radar, and an unmanned aerial system.

Once on the mountain, the team drilled 10 orange and green vinyl survey targets into the ice at pre-determined locations. Centered on each target, they used a Trimble Catalyst DA-2 receiver, an Android smartphone running Trimble's TerraFlex field software, and the Catalyst GNSS positioning service to collect a precise location. The small, lightweight, and easy-to-use survey technologies enabled the crew to be nimble without sacrificing accuracy. The GNSS measurements would provide the foundational data to underpin the entire 3D photogrammetry model.

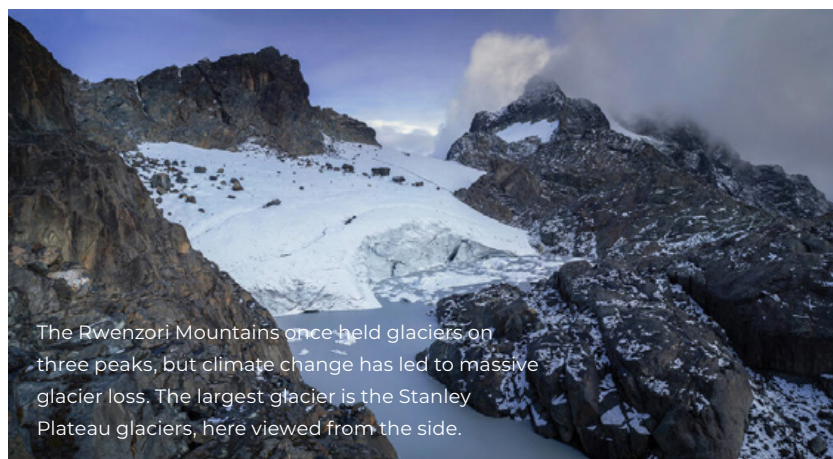
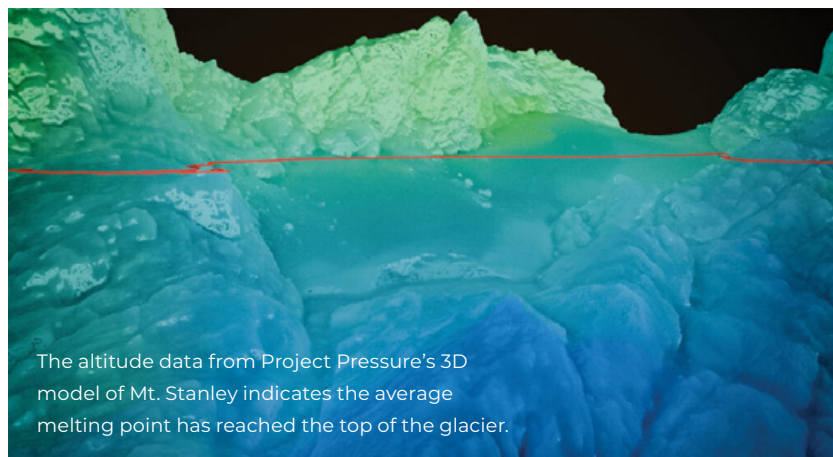
After surveying the targets, Thymann and his team conducted a drone survey over Mt. Stanley, capturing more than 850 raw images, including the geolocation points, ensuring the model's spatial accuracy.

In another expedition first, glaciologist Dr. Heïdi Sevestre conducted ground-penetrating radar (GPR) surveys of the Stanley Plateau's ice and bedrock to capture data on depth.

The Black and White of Glacial Decline

With a mix of data processing solutions from Pix4D and Trimble, the team combined a drone survey from 2020 with the GNSS data, drone imagery, and GPR survey data from 2024 to create the historic, centimeter-accuracy 3D model of the glacial retreat on Mt. Stanley. Complete with the glacial depths recorded by the GPR, the model provides texture details and exact elevations for the entire mountain, the ice thickness—some depths of 50 meters were recorded—and the glacial recession over four years.

The Project Pressure team confirmed that the glaciers on Mt. Baker and Mt. Speke have now disappeared, while the surface of the Stanley Plateau Glacier has decreased by 29.5 percent since 2020, and it's dropped eight meters by the side. The upper regions of Mt. Stanley are still glaciated but it's undergoing severe fragmentation, and the ice is melting at alarming



rates. Thymann predicts it will likely disappear in our lifetime.

"Seeing the surface area reduction of nearly 30 percent in four years was shocking and much more drastic than we thought," says Thymann. "The future is bleak."

Beyond the science, the loss is deeply cultural. For the Bakonzo people, the glaciers' disappearance signals not just an environmental crisis, but the erosion of an irreplaceable cultural heritage.

"The Bakonzo people, who live among the mountains, are strong people who believe that the mountain is a very important aspect of their life," says Alfred Masereka, an ecological monitoring and research ranger with the UWA. "The disappearance of the ice is bad news because it means our gods are being destroyed."

The first-ever model not only clearly shows how much glacial ice is left on the range, it gives local teams a foundation for comparative analysis as

they continue to monitor the Stanley Plateau. Project Pressure is now training and equipping local teams to collect data independently.

"The idea is that the local people, in collaboration with the UWA, collect the data," says Thymann. That could help inform adaptation, particularly when it comes to water security and storage.

As the ice retreats, Project Pressure will continue to work with the UWA to improve glacial estimates, create mitigating strategies, and expand local capacity for ongoing research and surveillance.

"Without data, you cannot make informed decisions," says Masereka. "But now this research will help us make decisions from an informed point of view." 🌍

— BY MARY JO WAGNER

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xyHt Digital Magazine

George J. Stannard III | VT LS #497 | NOV. 17, 1942 — JULY 12, 2025

George Judson Stannard III, 82, of Fair Haven, VT, passed away peacefully among loved ones on



July 12, 2025. He is survived by his son, George Judson Stannard IV (Jud), his ex-wife, Tracey Zeller (Stannard), his two brothers, Philip Stannard and Robert Stannard,

his cousins: Edward Stannard, Jr.; Jane Giroux McCauliffe; Hazel Ann Moxhay; Marjorie Dunbar; and Elizabeth Gammon Brunone as well as many nieces and nephews.

George was born November 17, 1942, the eldest of George Judson Stannard Junior and Hazel Phelps Stannard's three sons. He came from a large close knit family and had many cousins whom he loved to spend time with. It was family who helped him develop his famous sense of humor and become a

knowledgeable outdoorsman and adventurer. He was an avid reader and, fueled by intellectual curiosity, developed a love of puzzles, especially crossword puzzles.

For his secondary education, he attended Philip's Exeter Academy in Exeter, New Hampshire. It was at Exeter that he would pick up his love of literature, civics, and poor sleeping habits. From Exeter he would go on to Middlebury College where he studied both Russian and English Literature and was a member Alpha Sigma Psi, or as it was known on campus, Slug.

After years of working at various jobs, George would start a career as a land surveyor, which he would continue for some 40 years. His hand drawn maps were like fine works of art.

George never liked to stand still and was a member of many clubs and civic committees. He was a longtime member of The Fair

Haven Planning Commission and a member of A Contract Bridge Club in Rutland.

George loved to run the roads and would often get in the car with his son and say "let's go for ice cream and see if we can get lost." These excursions could last for hours, going nowhere in particular talking philosophy, theology, science, and listening to music laughing themselves silly.

While he will be dearly missed, he is off on his greatest adventure and finding the answers to all those questions... Godspeed, George.

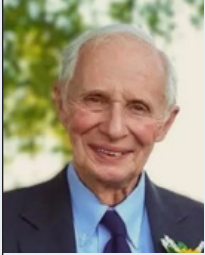
To leave a tribute to George or plant a tree in his memory, visit the Durfee Funeral Home website: durfeefuneralhome.com. A service was held in George's honor on August 17 at the First Congregational Church of Fair Haven.

George Stannard, LS, with Bob Tinker, LS, during a break at the 2018 VLS December Round Tables, held at the Capitol Plaza Hotel in Montpelier.



William A. Willis | VT LS #491 | MARCH 1, 2025

William A. Willis, of Lower Waterford, Vermont, and Turner, Maine, passed away peacefully on March 1, 2025, at the age of 89, in Auburn, Maine. Bill's strong



Christian faith, love for his family, service to community, and land surveying career were the cornerstones of his life, and he will be deeply

missed by all who knew him.

As a dedicated father, grandfather, and great-grandfather, Bill cherished moments spent with his loved ones. He was a guiding light for his family, always offering support, wisdom, and love.

Bill's commitment to his community was evident through his lifetime of service, including as a leader in the churches in New Jersey

and Vermont where he and his late wife, Anna May, were members; as a long-time member of the Waterford Fire Department; through service in Waterford town planning, zoning and select board roles; and with Northeastern Speedway, Lower Waterford.

His giving spirit, calm demeanor, and sense of humor made a lasting positive impact on those around him.

Bill was a longtime member of the Vermont Society of Land Surveyors, after becoming licensed in December 1969. For many years, he enjoyed having breakfast with other surveyors and engineers during their monthly gathering in St. Johnsbury.

He is survived by: two brothers, Wesley (and Elaine), Birmingham, Alabama, and Philip (Marsha), Longmont, Colorado; his children, David (Jessica), Westfield, Indiana,

Barbara (Roger) Cousineau, Turner, Maine, and Steve (Debbie), Barrington, New Jersey; ten grandchildren; and 24 great-grandchildren.

Bill's legacy of faith, family, and service will continue to inspire those who knew and loved him.

A memorial service to celebrate Bill's life was held on April 26, 2025 at East Auburn Baptist Church, Auburn, Maine. A graveside service was held at a later date in Lower Waterford, Vermont.

In lieu of flowers, donations may be made in Bill's honor to Waterford Fire Department, Waterford, Vermont; East Auburn Baptist Church, Auburn, Maine; Andwell Hospice House, Auburn, Maine; or Union Baptist Church, Waterford, Vermont. Condolences and fond memories may be shared with the family online at Albert & Burpee.



Bill Willis, LS, flanked by Philo Marcotte, LS (left) and Mike Hemond, LS, at the 2018 VSL Spring Seminar at Lake Morey Resort.

February 13, 2025 • 6:00 p.m. • Google Meet

Our meetings have been temporarily moved from the third Thursday of the month to the second Thursday of the month to accommodate new members' schedules. The meeting was called to order at 6:02 P.M. In attendance were Randy Otis, Lisa Ginett, Keith Van Iderstine, Joe Flynn, Chris Haggerty, Gayle Burchard and our Administrator: Birgit McCall. Absent: Mark Day.

Secretary's Minutes

Minutes for the Executive Committee meeting for January 16, 2025 were reviewed. The motion to approve the minutes was made and seconded and the vote was unanimous to approve the minutes of the January 16, 2025 minutes.

Treasurer's Report

Treasurer's report for the period of January 1st to February 4th 2025: Total income for period of the report was \$ 14,606.80, total expenses were \$5,154.50, net income was \$9,452.30, total cash on hand was \$22,887.79. Education Foundation Investment Balance was \$112,566.71 and VSLS General Fund Investment Balance was \$ 55,517.62. Keith reports that 2/3 of the members have renewed their memberships and paid their dues.

Administrator's Report

Birgit reports that registration for our spring seminar, in conjunction with the NHLA, will roll out online to the membership tomorrow. She says that 60 members have not yet renewed, but many usually renew as part of registering for the spring seminar. We all agreed that it would be great if more companies would send their techs to VSLS programs.

Birgit notes that she did purchase a new cellphone for her VSLS Administrative use. She mentions that she purchased the least expensive phone as the other higher cost models use 5G and she does not live in a location that has 5G available.

Proposed Rule Changes to Administrative Rules of the Board of Land Surveyors:

Joe Flynn has completed an outline of the Proposed Rule Changes for publication in "the Cornerpost". He says that there will be no discussion with OPR about the rule changes until we have run it by the VT surveyors for comments etc. before the Board of Land Surveyors push it out to OPR.

A brief discussion ensued about the Certified Surveyor in Training program (CST) which is being proposed as carrying more weight toward licensure than it previously did. Chris is concerned that the CST designation should not be equated with an Associate degree in Land Surveying. He looked at other states and it doesn't seem to be used toward licensure in the way the Proposed Rule Changes would allow. However, it was pointed out with a level 4 CST, there is still a 5 year experience period required to gain licensure whereas an Associate degree requires only 2 years of experience, both requiring successful testing. It was mentioned that people take the FS as part of the CST process.

We discussed the fact that the NCEES sends out PACs to surveyors every 5 to 7 years for a careful review as to the relevance of and comments about the test questions.

Other Business

Birgit mentioned that there will be two more joint Planning Committee meetings regarding the spring seminar. Joe stated that although Eric Salovitch is shown as the moderator of the afternoon Panel Discussion on Young Surveyors for the Spring Seminar, he thought that the outline presented by Boone Meeden was better than the one provided by Eric.

There being no other business, the meeting was adjourned at 6:24 PM

Respectfully submitted,
Lisa Ginett, VSLS Secretary



SHARE YOUR IDEAS ABOUT MAKING VSLS BETTER

Come Join Us

VSLS members are welcome to attend Executive Committee meetings, which are held each month. Please contact Birgit McCall to learn when the next one is: birgit@vsls.org.

May 7, 2025 • 6:00 p.m. • Google Meet

Our meetings are currently taking place on the second Thursday of the month. The meeting was called to order at 6:02 P.M. In attendance were Randy Otis, Lisa Ginett, Keith Van Iderstine, Joe Flynn, Chris Haggerty, and our Administrator: Birgit McCall. Absent: Mark Day and Gayle Burchard. We were also joined by Evan Johnson.

Secretary's Minutes

Minutes for the Executive Committee meeting for February 13, 2025 were reviewed. Joe made on correction to paragraph 7. The motion to approve the minutes with that revision was made and seconded and the vote was unanimous to approve the minutes of the February 13, 2025 minutes.

Treasurer's Report

Treasurer's report for the period of January 1st to May 5th, 2025. Total income for period of the report was \$ 43,076.84, total expenses were \$33,779.79, net income was \$ 9,279.05, total cash on hand was \$22,710.25. Education Foundation Investment Balance was \$110,048.62 and VSLs General Fund Investment Balance was \$54,275.68.

Keith and Birgit agreed that normally the VSLs makes \$5,000.00–\$7,000.00 on the Spring Seminar. The Joint meeting essentially lost money, but everyone who attended agreed that it provided great networking value.

Administrator's Report

Birgit reports that she split the work load for the Spring Seminar with the New Hampshire Administrator, Barbara. Birgit was unable to attend the meeting so she did all of the pre-planning and registration for our spring seminar while Barbara did all of the necessary tasks during the meeting.

Birgit notes that work is already ongoing for the Fall Seminar. The program Committee has a tentative date and speakers lined up for the Seminar. Birgit relates that they are looking at less traditional venues for the meeting to keep the cost down. The Program Committee will be meeting again soon to pick a final date and location for the event.

The group had a brief discussion about finally having an Applicant for the Education Foundation Scholarship. There are no real limits in the Bylaws about what fund amount can be given. We had already altered the Bylaws and can facilitate getting the applicant more than a one year scholarship. We discussed how to get more applicants for the scholarship. We asked Birgit to arrange a meeting of the Education Foundation

Committee. We wondered if out of state members of VSLs should be considered for the scholarship. The deadline for applicants is June 1st and Birgit will put further information about the availability of the scholarship into "The Cornerpost"

Young Surveyors Discussion

There was a panel discussion during the Spring Seminar regarding young surveyors and all agree that the New Hampshire Association has a very active Young Surveyors group. The 2 surveyors on the panel from Vermont said that they don't really have any meetings. All agreed that that these groups help with recruitment and retention.

Evan Johnson, the young surveyor who attended this evenings meeting, works for McCain Consulting under Keith VanIderstine. Keith asked Evan if he would be interesting in kick starting a young surveyors group in VT. He has agreed to the proposal. Randy has had contact with the NH young surveyors group and he said that surprisingly they had many 35-40+ year olds attending. This type of group is very useful for newer surveyors for discussions about surveying issues, exam prep, etc. The NH young surveyors meet once a month via zoom and have at least one in person social event in the warm season.

VSLs has 4 student members, 12 Associate members and about 55 people who have been licensed for 3 to 5 years. It was suggested that Evan contact the NH group to get some sense of structure and how to get things started. Some older surveyors could possibly help in the beginning. Birgit will send an email to the first group and also to the general membership to ask if any of their young staff, whether members or not, might be interested.

Other Business

Birgit reminded us that we might want to watch the WCAX interview about surveying with Joe Flynn being the interviewed surveyor.

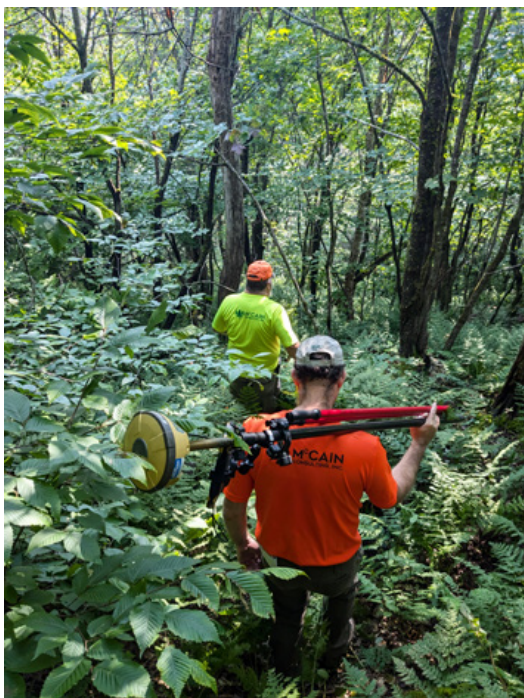
There being no other business the meeting was adjourned at 6:52 PM

Respectfully submitted,
Lisa Ginett, VSLs Secretary



SUMMER TRAVELS

Paul Hannan, LS, sent in these photos from his recent travels around New England. The granite marker is on the Vermont/Massachusetts line between Colrain, Mass., and Halifax, Vt. The mother and baby loon are swimming on Lake Christine in Percy, New Hampshire, and the scenic shot is from the Pioneer Valley of Massachusetts.



We need you! We're electing new officers at the Fall Conference.

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immediately

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.....
term begins
January 2026

If you'd like to get involved and help lead VSLs into the future, please get in touch with birgit@vsls.org today.

INTO THE WOODS

Evan Johnson of McCain Consulting shared this photo of crew chief Scott Herring and Keith Van Iderstine, LS, (orange shirt) as they close in on the last remaining monument high on a hill in Roxbury, Vt.

2025 VSLs Fall Conference

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SCHEDULE

7:00 - 8:00 AM	Registration & breakfast
8:00 - 10:00 AM	Current Use , with Addison Kasmarek
10:00 - Noon	Stone Walls , with Kevin Gardner
Noon - 1:30 PM	Lunch & Business Meeting
1:30 - 3:00 PM	Wetlands , with Tina Heath
3:00 - 5:00 PM	Condemnation & National Forest Boundaries , with Kevin Tilton

REGISTRATION FEES*

Full Member in good standing of VSLs or kindred society.....	\$205.00
Associate Member	\$164.00
Life Member	\$153.75
Technical Staff.....	\$174.25
Group Rate (3+ people with at least one member).....	20% discount
Student Member	\$75.00
Non-Member	\$305.00

*\$35 late fee after September 4

PRESENTERS



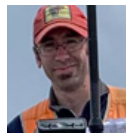
Kevin Gardner, Stone Wall Builder: Kevin is a lifelong resident of Hopkinton, NH and a jack of many trades — a builder, logger, writer, teacher, radio voice, even an actor and director. For more than 40 years he has been a stone wall builder in a family business widely known for traditional New England stonework, particularly for historic restoration of antique structures. Kevin has published two books: *The Granite Kiss: Traditions and Techniques of Building New England Stone Walls* and *Stone Building: How To Make New England Style Walls and Other Structures the Old Way*.



Tina Heath, State of Vermont Wetland Ecologist: Tina has an extensive background in the environmental field that specializes in wetlands; plant identification; environmental regulation; natural communities; water resources; and educational and public outreach. Expertise includes: state (VT) and federal wetland regulations, wetland delineation, wetland functional assessments and biomonitoring, plant surveys and inventory, restoration monitoring, and leading field crews.



Addison Kasmarek, Greenleaf Forestry: Addison has been practicing forestry for 13 years in Vermont, New Hampshire and New York. She joined Greenleaf in 2010 after receiving a BS in Forestry from UVM. In addition to forestry and GIS consulting, Addison specializes in invasive plant control and sugarbush management, assisting landowners with organic maple certifications. She is a licensed professional forester in VT and NH and a consulting forester.



Kevin Tilton, US Forest Service: Kevin is a licensed land surveyor in New Hampshire and Maine. He works for the Department of Agriculture, US Forest Service as the White Mountain National Forest Land Surveyor. Kevin earned his AAS in Civil Technology with an emphasis in Surveying and Mapping from the Thompson School of Applied Science at the UNH. He has considerable experience with boundary and engineering surveys, deed research and plan compilation, and project experience such as infrastructure, property, and conservation surveying.

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