



The Connecticut Surveyor

Festival of the Terminalia



The name of the god Terminus was the Latin word for a boundary stone, and his worship as recorded in the late Republic and Empire centered on this stone, with which the god could be identified. Siculus Flaccus, a writer on land surveying, records the ritual by which the stone was sanctified: the bones, ashes, and blood of a sacrificial victim, along with crops, honeycombs, and wine, were placed into a hole at a point where estates converged, and the stone was driven in on top. On February 23 annually, a festival called the Terminalia was celebrated in Terminus' honor, involving practices which can be regarded as a reflection or "yearly renewal" of this foundational ritual. Neighboring families would garland their respective sides of the marker and make offerings to Terminus at an altar—Ovid identifies these, again, as crops, honeycombs, and wine. The marker itself would be drenched in the blood of a sacrificed lamb or pig. There followed a communal feast and hymns in praise of Terminus.

Join us on Wednesday, February 22, the day before, to celebrate Terminus by having a beer, or wine with some good conversation will fellow professionals.

- Rick Howard & Adam Hoffman will meet you at Aunt Chilada's, 3931 Whitney Avenue, Hamden, CT 06518 from 6-7 pm. Feel free to call Rick at 203-317-0570.
- Larry Geissler will be at Adams Mill, 165 Adams Street, Manchester, CT 5-6.
- Susan Mattern & Mike Garon will be at These Guys Brewing, 78 Franklin Street, Norwich, CT, 5:30 pm.
- Tim Wyllie will be at the Backstage, 84 Main Street, Torrington, CT 06790, at 6:00 pm.

Please join us at a location that is convenient for you!

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A Letter from CALS President

“A change in the weather is known to be extreme...” – Bob Dylan

That certainly may be the case sometimes, especially if you're talking about the political climate. Recently we all weathered a change in leadership, not only in our national election, but also in the CALS annual elections. This fall, on November 4th at the Annual CALS Convention at St. Clements Castle in Portland Connecticut, I became president of CALS for the next two years. While this fact may not be nearly as notable as the national transfer of leadership from one U.S. President to another, it is my sincere hope that my tenure as CALS president helps further our mission and helps make a real difference for our members and our profession.

I believe it is safe to say that my leadership style will be quite different than our newly elected Commander-In-Chief. I don't believe in rocking the boat just to see how far the boat will tip before it capsizes, but I'm not afraid of rapids either. I'm much more interested in charting a course that's best for us all in terms of the land surveying profession and working to achieve consensus where ever possible.

We all face challenges in our business and profession and we often need an advocate or a resource to rely on. The Connecticut Association of Land Surveyors mission is to be that advocate and resource. Last year our whole organization joined the National Society of Professional Surveyors (NSPS) to bolster our state voice with the support of the national organization. As part of the services CALS provides to its membership we regularly give out scholarships to the best and brightest people attending school to join our profession. We conduct seminars to keep our education current, we maintain databases for the benefit of our members. We also monitor legislation and keep close contact with the Board of Registration and the Department of Consumer Protection. We hold an annual convention for networking and exposure to the latest developments in the profession and we work to engage young folks interested in our profession. Those are just some of the benefits CALS provides. There's strength and power in numbers and personally I would be glad to say at some point that all Connecticut surveyors have become members of CALS.

To quote Bob Dylan again “The times they are a-changing.” This should not surprise us, times are always changing. The sooner we realize this fact, the easier it is to make an action plan. CALS board of directors is always working to meet the changes and challenges that face our profession and to modify our action plan. Along with your concerns and input we try to address new issues as they emerge.

These are exciting times, but they have been tough times as well. Certainly, for many people, the last ten years have been the most difficult period businesses and individuals have had to face in generations. As president of CALS my goal is to keep a steady hand on the tiller, help guide us through new perils as they present themselves, keep us together and make us stronger both as individuals and as a profession. Together with the board of directors, our aim is to continue to be an organization that strives to represent the needs of Connecticut's surveyors and protect our profession, while providing the means for continued education and business association. CALS is a force to be reckoned with and every member has the ability to contribute some of their time and talents if they wish to. I believe that taking advantage of that force is the best way to meet the winds of change.

In closing I would encourage you to take an active part in CALS functions and lend your assistance if possible. This year is CALS fiftieth anniversary and our annual convention will be a combined regional convention that we are hosting. Volunteers are needed to help with various tasks, contact the CALS office for more details.

Wayne Zirolli, President

President's Forum

Beginning this month, CALS will be publishing the President's Forum, a discussion board, so that our members can exchange ideas and views on a variety of topics that may have an impact on the surveying profession.

Please feel free to submit your comments and thoughts.



The CALS BOD at its most recent meeting discussed the growing number of municipalities that are requiring submission of a dwg file, of the final approved plans, in land use applications.

What are the pros and/or cons to providing dwg files to public agencies?

What precautions do you take to prevent assuming additional liabilities when supplying dwg files to public agencies?

What would you consider to be acceptable guidelines for dwg files provided to public agencies?

Understanding that it would be difficult to pass legislation regarding this issue, would you support CALS attempting to raise such legislation?

Submitted by Bob Dahn,
CALS Legislative Chairman

The Art of Mapping Ski Trail Maps

The name “James Niehues” may not strike home immediately, but if you’re a [skier](#), you’ve undoubtedly *held* his work. Niehues has painted roughly 255 ski trail maps, for 175 [different resorts](#), including some of North America’s most iconic slopes. To the west: Alta, Big Sky, Park City, Heavenly, Mammoth, Snowbird, Squaw Valley, Sun Valley, Telluride, Taos and Vail all have Niehues’s name on their trail map. To the east: Killington, Mt. Snow, Okemo, Smugglers Notch, Stowe, Stratton, Sugarloaf, Sunapee and Sunday River.

For resorts, having Niehues’s signature on their trail map gives them clout and prestige. It’s like having [Jimmy Chin](#) film a mountaineering documentary or having [Russell James](#) shoot a cover photo. Now 70, Niehues didn’t start painting trail maps until after his 40th birthday. As for how he got into the industry, it started with being in the right place at the right time.

When they met, Brown had already been hired by Winter Park Resort to paint the backside of Mary Jane. And he had time to do it, so he let Niehues have a go. “The thought was if [mine] didn’t pass, he could still go ahead and do it,” says Niehues. “So I did it, spent about a month at it, and when he showed it to the client they never knew that Bill hadn’t done it. And then he brought it back to me and I signed it. That was my first illustration.”

On any project, Niehues requires aerial photos of the mountain. “These photographs are for information, not for composition or quality,” says Niehues. “So anybody can shoot them.” Niehues takes a lot of these photos himself. When it’s not him, he prefers to work with amateurs who aren’t after that one [Chris Burkard-like](#) moment of magic. There have been numerous times, he says, where the photos had to be reshot because they didn’t capture the right information.

To properly photograph a mountain, for mapping purposes, Niehues needs to get 2,000 feet above the summit. At this height he can see “into the trees” instead of just looking across to the horizon.



Can you guess the unlabeled mountains in this post?

Answer on page 6...

The Art of Mapping Ski Trail Maps continued

To properly photograph a mountain, for mapping purposes, Niehues needs to get 2,000 feet above the summit. At this height he can see “into the trees” instead of just looking across to the horizon. Niehues takes a sweep at this elevation, snapping about 20 photos. He’ll then drop down to 1,000 to take another sweep, and then down to 500 feet, where he’ll also use a telephoto lens to capture the details: lifts, buildings and junctures of trails. This level of detail is crucial to mapping. “If I didn’t have aerial photography, and had to rely on [Google Earth](#), it probably wouldn’t be what it is,” says Niehues. “It wouldn’t have any detail or the understanding of the slopes.”

Niehues doesn’t choose photos to trace them. They’re there to help him “manipulate perspectives,” which he has to do with any mountain that has more than one “facing slope” — which is most mountains. The more facets, the more manipulation. When sketching, Niehues focuses on getting the elevations correct (at least their relationship to each other) and makes sure everything lines up. There aren’t any secrets, says Niehues; it’s just taking what you have in front of you and stretching it here or changing the angle there. And it has to be done in a way that [the skier](#) absolutely believes it as truth.

Once the client approves the sketch, it’s then projected onto an illustration board (30 x 40 inches) and Niehues traces it. Then comes [paint](#). Through the years, the painting process — from Shelton to Brown to Niehues — hasn’t changed much, says Niehues. He uses a [Winsor & Newton designer gouache](#) and standard brushes, nothing special. A [layer of gesso](#) goes on the illustration board. The gesso does three things: it prevents the paint from sinking into the board; it makes it easier for the painter to lift off the old color and repaint it, if that’s necessary down the road; and it gives the colors more intensity. The sky and snow are airbrushed before any paint touches the board. Then Niehues takes out his brushes. “I start painting in all the tree shadows. Once that’s done I’ll start at the top of the slopes and then work my way down with all the detail. So, all the cliffs and trees, right on way to the bottom.”

When finished, the illustration is taken to a [photo lab](#), where they pull a very detailed, 100-megapixel scan. When Niehues first started, he’d get an 8 x 10-inch transparency of the illustration, which he describes as just a four-color slide, and the resort would use this to get printed. The finished print wasn’t nearly as detailed, and transparencies aren’t used anymore. The only other difference today is that Niehues gets a final scan back. He can enhance the illustration’s colors and add additional contrast (mostly with Photoshop). The final product goes to the client, who will then have a graphic artist add trail names and other symbols to the trail map.

There aren’t any secrets. It’s just taking what you have in front of you and stretching it here or changing the angle there. And it has to be done in a way that the skier absolutely believes it as truth.

But ski resorts don’t need new trail maps painted every year. In fact, Niehues says his very first painting of Winter Park Resort is still in use today — 28 years later. “They’ll never come for another trail map if they like the one they have,” says Niehues. “There are some years when I’ve only had five or six [to do], and that’s when you start reaching out to Chambers of Commerce or Visitor Boroughs and try to get some regionals to do.”

The Art of Mapping Ski Trail Maps continued

The ski trail map industry is decisively small. “There’s not much room for several artists to make a living, and it was pretty difficult for me,” says Niehues. “Either I worried about getting enough work in, or I was worried about being able to produce what I got — it’s up and down.” There are other artists who paint one here and there, but Niehues himself makes it tough for new artists to break into the industry. In his contract, Niehues says he retains ownership of the original art, and he keeps all of the illustration boards. This means whenever a resort needs an adjustment — say, when a trail is added — they can contact Niehues to touch up the original artwork. As far as royalties, Niehues says he’s paid once, and from there the resort can use the painting in any way promoting their area. “Hal [Shelton] didn’t want to be a policeman,” says Niehues, “And I think most trail map artists don’t want to be in a situation where they have to keep track of them every year.” Especially if the resort’s in a different country.

Over the years, Niehues has used his profession as a means to travel (and ski). He’s painted ski trail maps in [New Zealand](#), Austria and Australia. He’s also been able to paint trail maps for resorts that he hasn’t visited, like in Serbia, Japan, China, Korea and South America. On these assignments, the resort hires somebody else to shoot the aerial photography.

At the moment, Niehues — who, at 70, is in a bit of “a retirement mode” — has taken a young man named Rad Smith under his wing. Smith had previously made computer-generated trail maps. And he did a good job, says Niehues. “But he realized that he couldn’t do what I do.” Now, in pursuit of a better more beautiful trail map, Smith has turned to the brush and watercolors. And Niehues is there to guide him.



Professional Development

Preparing for the Connecticut Exam?

NSPS offers a site for Certified Survey Technicians (CST). There are on-line tutorials for Level 1 (entry), Level II (instrument operator) and Level III (senior technician/party chief).



According to Jay Doody, Chairman of CALS Continuing Education Committee, Level III is equivalent to the non-law parts of the PS and FS exams.

Visit the <http://www.nsp.us.com/> Get Certified to see the tutorials.

“The most important attitude that can be found is the desire to go on learning.”



CONNECTICUT ASSOCIATION OF LAND SURVEYORS

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Tel. (860) 563-1990 Fax (860) 529-9700
kathy@ctsurveyors.org

CALS 2017 MEMORIAL SCHOLARSHIP

ESTABLISHED IN HONOR OF THE FOLLOWING MEMBERS:

- HARRY E. COLE – 1909-1984
- OLIVER H. PAQUETTE – 1931-1992
- WILLIAM G. BERGLUND – 1918-1989
- WILLIAM W. SEYMOUR – 1947-1998

The Connecticut Association of Land Surveyors is pleased to offer annual scholarships to deserving students of surveying.

To qualify an applicant must:

- 1) Be a resident of Connecticut.
- 2) Be enrolled in a program leading to a BS, AS or Certificate program in surveying, or a student in a BS or AS program who has a proven record of surveying employment, as evidenced by letters of recommendation from his or her employer.
- 3) Show an interest in being a part of the surveying profession.
- 4) Students must be in their BS program junior or senior year, or AS second year.

Please submit a statement outlining qualifications, together with a transcript, resume, and other pertinent information to:

CALS SCHOLARSHIP COMMITTEE
c/o JAY DOODY
49 ARLINGTON STREET
WEST HAVEN, CT 06516

The deadline for applications is June 1, 2017

**Don't forget to apply for
a CALS Scholarship!**



In Memory



Igor Vechesloff, of West Hartford, died peacefully at St Mary's Home on Friday January 20th. He was born June 9th, 1925 in Pancevo, Yugoslavia; he was a son to the late Zachary and Natalia Vechesloff. He loved Mother Russia, it's people, and culture with all his heart. Igor was a devout Russian Orthodox Christian and attended St Panteleimon Church in Hartford. He fled Russia during World War I I, along with family members, to safety and eventually to the United States. His education was considerable; he attended and completed two universities, both abroad and in this country. Igor was both a licensed Profesional Engineer and Land Surveyor and opened his own office in 1962. During a career spanning 50 years, he completed thousands of diverse projects of varying degrees of complexity. Professionally, he had many friends and colleagues and was widely respected in the engineering community. Due to the nature of his work, many of his accomplishments will serve as quiet testimony to his dedication and skill as an engineer. Igor is survived by his wife, Nadezhda , children Tatiana Lamb and Oleg Vechesloff, granddaughters Christine, Veronica and Julia, along with their respective spouses and children.

Contributions may be made directly to St. Panteleimon Church, 19 Becket Street, Hartford, CT.

To share a memory with the family, please visit www.dillonbaxter.com.

The 2016 NSPS Voting is Complete

The results have been confirmed by the Tellers Committee.

- 2017 President-elect Jan Fokens (MI)
- 2017 Vice-President Lisa Van Horn (WI)
- 2017 Secretary Tim Burch (IL)
- 2017 Treasurer Bob Miller (PA)
- 2017 Armond Marios (CA) NSPS Director-at-Large
- 2017 Tony Cavell Past President

The slate of officers will be installed during the 2017 NSPS Annual Meeting to be held Friday, March 17, 2017 in Silver Spring, MD.

Why is there a "jog" in Connecticut's border with Massachusetts?

The notch in Connecticut's northern border, just above Granby, is sometimes called the "Southwick Jog".

In 1642 Massachusetts hired two surveyors, Nathaniel Woodward and Solomon Saffery, to survey the boundary between that colony and Connecticut. However, the point they established as the western end of the line was disputed by Connecticut and ultimately found to be eight miles too far south. According to a pamphlet in our vertical file, for the next 60 years, "surveyors hired by either Connecticut or Massachusetts set a number of boundaries favorable to the colony that employed them. The only result of these surveys was increased animosity between the two colonies. Even a joint survey in 1702 did little to settle the affair.

"To complicate matters, the citizens of Enfield, Somers, Suffield and Woodstock, unhappy with Massachusetts' high taxes, applied for admission into Connecticut in 1724. These towns claimed they were included within Connecticut's original boundaries and were entitled to return to that state."

"Naturally, Massachusetts refused to give them up, but in 1749 Connecticut voted to acquire them. A verbal battle raged for years, reaching crisis proportions. Appeals to England were ignored, since that country was embroiled in the Seven Years' War."

"In 1768, Massachusetts laid formal claim to the four towns; however, Connecticut did nothing about the edict and continued to govern them."

Following the Revolutionary War, in 1793, both states appointed Boundary Commissioners to run a straight boundary from Union, Connecticut to the New York state line. In 1797 the Commissioners recommended that a disputed 2.5 square mile tract be awarded to Massachusetts as compensation for its earlier losses of Suffield, Woodstock, Somers, and Enfield to Connecticut. However, it was not until 1804 that Connecticut agreed to yet another compromise that partitioned the 2.5 mile area at Congamond Lakes with Massachusetts receiving 5/8 of the disputed parcel along the west shore and Connecticut receiving the remainder, along the east shore.

Taken from the Connecticut State Library

Notice to Surveyors with antique compasses in working order



I am performing research on the accuracy of compass needles of various lengths and have established a compass calibration range in West Haven. If you have an 18th or 19th century compass you would like to have tested for needle accuracy, please contact me at jjdoody@snet.net or 203-933-3850.
Jay Doody, PS, PE

Congratulations to Angus McDonald, Jr.

In a recent election of the South Central Proprietors Council, Angus was elected representative to the Council on the CALS Board of Directors. Angus had to step down from the Executive Board last year to fill a vacancy after the death of the First Selectman in the town of Deep River.



Looking for Old Survey Equipment & Books

A long-standing member of CALS is decorating his office and is looking for memorabilia to decorate his office. If you have anything that you would be willing to part with please contact him at joe.pereira@pereiraeng.com.

Looking for Donations

El Porvenir (www.elporvenir.org), a non-profit group that works to bring clean water and sanitation to people in Nicaragua, is looking for a donation of one or two used theodolites. These theodolites will be used by El Porvenir's land surveyors to layout new water systems. If you have any questions or a donation to make, please contact Rob Page at 203 337-5997.

MAPPS-NSPS 3rd annual National Surveying, Mapping, and Geospatial Conference

March 13-18, 2017
Sheraton Hotel
Silver Spring, Maryland

The conference will focus on the profession in technology innovations, collaboration, and public policy, with an emphasis on private practice.

Sessions will include a forum for discussions on best practices, technology issues, and policies. The conference gives participants an opportunity to share information, knowledge, and tools, as well as open doors to new markets and facilitate collaboration on data acquisition, processing, applications, and the use of new and emerging technology. The program will feature discussion of business practices and policy issues that directly impact all surveyors, photogrammetrists, and other geospatial professionals, including those in companies in the private sector.

**NSPS Student Competition
Papers, Presentations, and Discussions
Board and Committee Meetings**

Annual MAPPS Federal Programs Conference, March 14-15

On Tuesday, March 14, MAPPS will host presentations by Federal agencies on programs, budgets, and requirements for the acquisition of geospatial services, data, and products by contract from the private sector:

On Wednesday, March 15, MAPPS and NSPS members will visit some 200 Congressmen and Senators at the U.S. Capitol, advancing a common agenda of legislative issues the serve the public and engage the surveying, mapping, and geospatial community.

Tech Time

Roundtable discussions between equipment, hardware, and software providers and principals, owners, partners, and professionals of surveying, mapping, and geospatial firms, as well as practitioners in all sectors.



Visit www.surveyingandmapping.net for the conference schedule, program information, and links to on-line registration.

The link to the conference website is: <http://www.surveyingandmapping.net/>

Kindness Lasts Forever



A man gave the shoes off his feet to a homeless girl.



The store employee who gives extra service.



The crowd who decided that a fan should be able to watch the show, no matter what.



Consolation knows no color.

The next time you buy a cup of coffee,
pay for the person behind you.

It will make YOUR day!

Classified Ads



**IT'S NEVER TOO
EARLY
TO LOOK FOR
SUMMER INTERNS!**

If you are planning to hire students for paid internships in summer 2017, the Civil Engineering Department at CCSU has a number of students that may be interested in working for you. The students I am teaching this semester have already taken Survey 1 and are presently taking a class in GPS, utilizing new RTK/Static GNSS Receivers.

If you would like to reach out to these students, send a note to me with the name of the firm, what town it is in, type of employee needed and your contact information. I will pass this along to those students who have expressed an interest in an internship.

John J. Doody PS/PE
Instructor CE 458 Introduction to GPS
doodyj@ccsu.edu or jjdoody@snet.net

Fairfield County

- **Licensed Land Surveyor** - Arcamone Land Surveyors LLC located in Norwalk, CT is looking to hire a full or part time CT licensed land surveyor. Responsibilities include performing land title search, zoning location surveys, property surveys, topographic surveys, construction layout and staking and elevation certificates. Knowledge of AutoCAD and data collection in processing and preparation of all surveys is required. Robotic/GPS experience a plus. Arcamone Land Surveyors offers a competitive salary, paid vacation, paid holiday and health club benefit. Please submit resume to Wayne Arcamone P.L.S./Owner at wayne@arcamonesurveyors.com.

Classified Ads

Fairfield County continued

- **Licensed Land Surveyor** - S.E. Minor & Company, based in Greenwich, CT seeks to hire a full time CT licensed land surveyor. Experience with all phases of land development is essential. Needs to be able to communicate effectively with survey and engineering staff, clients, municipal review boards and other design professionals. Requires ability to work independently and with a team, assist in establishing project budgets, schedules, and meet established deadlines. Minimum 6 years relevant experience; L.S. required. Requires excellent verbal and written communication skills as well as proficiency in the use of AutoCAD and related software.

Competitive salary commensurate with experience; health and 401k benefits package offered. Candidates should email resumes to: resumes@seminor.com.

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- **Pereira Engineering, LLC** is an established Civil/Environmental/Land Surveying firm located in Shelton, CT and we are looking to fill the following position:
 - **Civil Engineer** - experienced in various types of site development projects including residential, commercial, and municipal projects. Responsibilities include the design of site layouts, subdivisions, septic systems, storm and sanitary sewers, storm water management systems, grading, roads, and hydrologic/hydraulic studies. Duties will include preparation of plans, specifications, and calculations as well as coordination with other design professionals and public officials. Qualified candidate must have a B.S. in Civil Engineering from an accredited engineering program and must be proficient with AutoCAD Civil 3D and other commonly used design and drainage analysis software. Candidate must be organized, highly-motivated, and detail-oriented.

Pereira Engineering offers a very competitive salary and benefits package including Major Medical Insurance, 401(k) Profit Sharing Plan, Life Insurance including Short-Term Disability and AD&D coverage, paid Vacation, Holidays, Sick Days, Direct Deposit for payroll, and a Health Club membership. Please email resume and salary requirements to: joe.pereira@pereiraeng.com or fax to: (203) 944-9945.

Immediate Need for multiple positions at Redniss & Mead, a relaxed and friendly land survey firm. Positions include:

- **Entry Level Field Surveyor** (willing to train the right candidate)
- **Experienced Party Chief** with research and AutoCAD abilities.
- **Survey/Field Technicians** to join the Redniss & Mead Team of Land Surveying, Civil Engineering, and Land-Use Planning professionals in a growing firm located in Fairfield County, CT. Candidates should have 3+ years experience in the surveying field and experience in the processing and preparation of all types of surveys, including boundary surveys, topographic surveys and construction layout. Knowledge of AutoCAD and Data Collection is required. Responsibilities include performing fieldwork, processing and mapping of fieldwork, coordination with clients and in-house staff. Work for this position will be on a variety of project types including residential, commercial and institutional. For consideration, please forward your resume to Lawrence W. Posson, PLS, Director of Surveying: L.Posson@rednissmead.com. We are an Equal Opportunity Employer and offer a competitive compensation package including salary, medical benefits, paid vacation, paid holidays, performance bonuses, 401K retirement plan, direct deposit, and a health club membership.

Classified Ads

Hartford County

- **Project Manager / Party Chief BSC Group** - Join our dynamic group of Professional Surveyors, Landscape Architects, Engineers and Environmental Scientists with offices in Connecticut and Massachusetts. The company is currently in search of talented Surveyors to join the growing Survey group in Glastonbury, CT, and support ongoing projects that will contribute to our expected growth in the public and private sectors. We currently have a full-time **Land Survey Project Manager** position open in our **Glastonbury, CT** office. All levels of experience are encouraged to apply.

The successful candidate must have a minimum of 5 years' experience in management of Land Survey projects. The ideal candidate will be well-versed in all levels of survey operations including, preparation of field crews; land records research; boundary calculations; survey adjustments; and construction layout. Additional management skills may be required, including preparation of proposals; estimating project costs; managing project budgets as well as maintaining client contact. The Project Manager may also be expected to function as a Party Chief in field operations. Knowledge of Robotic Total Stations, RTK GPS and AutoCadd Civil 3D with field-to-finish survey techniques is desirable, along with a willingness to adapt to changing technologies. Candidates must have, at a minimum, an Associate's Degree in a related field of study with 8 years of progressively responsible experience in Land Surveying. Requires excellent client relations with effective communication skills. Land Surveyor licensed in CT or MA (or LSIT) is preferred. Candidates must also possess a valid driver's license with clean driving record.

About this Company - BSC Group is a collaborative practice of planners, engineers, and scientists who are thoughtfully transforming our environments with projects in site development, transportation, and energy. Founded in 1965, the firm offers the services of more than 130 professionals operating from four offices in Massachusetts and Connecticut.

Our consulting staff represents the best talents in planning, engineering, regulatory permitting and ecological science, landscape architecture, land surveying, and spatial information systems. We truly believe our greatest strength lies in our collaborative approach to projects, involving all members of our multidisciplinary staff as necessary, leading to better and more creative solutions throughout the life of the project. We also encourage the involvement of our clients in every step of the process, resulting in high quality planning and design that is technologically and environmentally sound, economically feasible, and aesthetically pleasing.

BSC offers excellent benefits including medical, dental, 401(k), and group life insurance, as well as a competitive salary.

No telephone calls, no recruiters, please.

BSC is proud to be an Affirmative Action/Equal Opportunity employer. Women, Veterans, minorities and persons with disabilities are encouraged to apply.

Classified Ads

Hartford County continued

- **Survey Technician/ Draftsman** - Anchor Engineering Services, Inc., a multi-discipline Engineering, Surveying and Environmental firm working on a wide and varied list of projects, is seeking a qualified, motivated Survey Technician / Draftsman. Anchor Engineering Services, Inc. provides land surveying services throughout Connecticut and western MA on a wide variety of projects including, subdivisions, bridges, railroads, utilities, boundary surveys, ALTA surveys and many others. This is a great opportunity for career development: Requirements include: 5+ years exp. GPS, Data collector, total station exp. required, CAD experience required, Microstation experience preferred. Pay commensurate with experience. Benefits including health/dental insurance, 401(k) plan and vacation. Please send resume to: Anchor Engineering Services, Inc., 41 Sequin Drive, Glastonbury, CT 06033. careers@anchorengr.com EEO/AA
- **Survey Crew Chief** - Anchor Engineering Services, Inc., a multi-discipline Engineering, Surveying and Environmental firm working on a wide and varied list of projects, is seeking a qualified, motivated Survey Crew Chief. Anchor Engineering Services, Inc. provides land surveying services throughout Connecticut and western MA on a wide variety of projects including, subdivisions, bridges, railroads, utilities, boundary surveys, ALTA surveys and many others. This is a great opportunity for career development: Requirements include: 5+ years exp. Data collector, GPS, total station exp. require, CAD experience helpful. Pay commensurate with experience. Benefits including health/dental insurance, 401(k) plan and vacation. Please send resume to: Anchor Engineering Services, Inc., 41 Sequin Drive, Glastonbury, CT 06033. careers@anchorengr.com EEO/AA

Middlesex County

- **Instrument Person** - We currently have an opening for an Instrument Person in our Cromwell, CT office. Practical knowledge of land surveying practices is required. Skills in using total stations, GNSS equipment, robotic instruments and data collectors a plus. Applicants should have the ability to travel for work. A high school diploma or equivalent is required. A minimum of three (3) years of survey experience is preferred. OSHA 40 hour training and OSHA construction certificate a plus. All successful applicants will have background checks, will be drug tested and will be subject to random testing throughout the year. The LRC Group is an Affirmative Action/Equal Opportunity Employer.
- **Party Chief** – We currently have an opening for an Survey Party Chief in our Cromwell, CT office. The Survey Party Chief would be responsible for overseeing a survey field crew on projects ranging from construction stakeout, utility, boundary and topographic survey, right of way surveys. Skills in using total stations, GNSS equipment, robotic instruments and data collectors a requirement. Applicants should have the ability to travel for work. A high school diploma or equivalent is required. OSHA 40 hour training and OSHA construction certificate a plus. The ideal candidate should have 5 or more years of surveying experience in the fields listed above. All successful applicants will have background checks, will be drug tested and will be subject to random testing throughout the year. The LRC Group is an Affirmative Action/Equal Opportunity Employer. Please send resumes to: contact@lrconsult.com

Classified Ads

Middlesex County continued

AI Engineers, Inc. (AI) is a professional engineering consulting firm with over 160 employees . Headquartered in Middletown CT, the company has branch offices in New York City, Boston, *Providence, Richmond and Albany.* *he AIE website provides details and photographs of business operations at: www.aiengineers.com.* The Middletown office has two openings.

- **Party Chief** - The ideal candidate will a minimum of 5 years of experience as a Party Chief, and have experience in boundary and topographic surveys, bridge and road surveys, construction surveying for layout & contractor checks, land records research and proficiency with AutoCAD Civil 3D. Microstation knowledge is a plus.

Job Duties: Perform surveys of State, municipal and private infrastructure such as building and facility sites, open land, development sites, roadways, bridges, streetscapes, residential and commercial developments and construction sites in urban and suburban areas. Candidate should be able to work well in a team setting, and independently when using robotic instruments and/or GPS on assignments.

Survey Experience Required: Boundary and topographic/location surveys, highway and bridge surveys, as-built surveys, stakeout for construction and land records research. Experience is working with a robotic total station is highly desirable. Good problem solving abilities in both field and office. Ability to interact well with team, staff, clients and subcontractors. A valid US driver's license, with a clean driving record is required. Position offers strong growth opportunities.

- **Instrument Person - Responsibilities:**
 - Assist the field supervisor with all aspects of the daily crew workload.
 - Work in a safe manner and obey all safety regulations.
 - Work independently as a one-person crew as required.
 - Daily uploading and downloading of data collectors.
 - Processing and mapping of survey data.
- **Required Skills & Required Experience:**
 - Previous survey instrument operation experience required.
 - Must have good Mathematical skills.
 - Must have good computer skills.
 - Must have good communication skills.
 - Must have and maintain a valid driver's license in order to operate company vehicle
 - Must be physically able to work outdoors and on construction sites under all weather conditions.
 - Proficiency with AutoCAD and/or Microstation and data collection software a plus.

Email resume to jfeder@aiengineers.com for either position. AA/EOE

Classified Ads

Middlesex County continued

- **Survey Project Manager** - BL Companies, an ENR Top 500 Architectural, Engineering, Environmental and Land Surveying Consulting Firm has an exciting career opportunity immediately available for a Survey Project Manager to join the firm's growing survey division in its Meriden, Connecticut office. The selected candidate will have at least 8 years' experience and will be responsible for managing the successful delivery of survey projects. The position includes the preparation of proposals, estimating project costs, managing project budgets, resource planning, and client contact. Excellent verbal and written communication skills along with organizational skills are required for this position. Professional license is not required but desirable. This individual will work closely with BL's Survey Management team and will participate in overall operations of the department. The candidate will also participate in BL's leadership development programs and will have a unique opportunity to make a broad and significant contribution to BL's growth while advancing their leadership skills. BL Companies offers an excellent benefits package and fosters a growth-oriented work environment. Please send resume to: Human Resources, BL Companies, 355 Research Parkway, Meriden, CT 06450, via fax to 203-630-2615 or e-mail resumes@blcompanies.com. EOE. Visit our website at www.blcompanies.com. An Employee Owned Company.

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- **Party Chief**-Martin Surveying Associates, LLC is a growing firm located in Berlin, Connecticut is seeking a party chief with the following qualifications:
 - 5+ years of experience in the role of a Party Chief.
 - Ability to perform and work as a one-person crew utilizing robotic total stations and GPS equipment.
 - Experienced in ALTA/NSPS Surveys, boundary surveys, topographic surveys and construction layout on large commercial projects.

AutoCAD experience a plus.

Please send Resume to: Martin Surveying Associates, LLC, 321 Ellis Street, New Britain, CT 06051
martinsurveying148@yahoo.com

New London County

- **Crew Chief** - Small, progressive surveying firm located in Preston, CT, is seeking a person experienced in all facets of land surveying. Successful applicant must be proficient in the use of data collectors, robotic total station and GPS equipment. AutoCAD experience required. Final drafting skills are a plus. Excellent, long term career opportunity for someone aspiring to become a PLS. Mattern & Stefon Land Surveyors, LLC, 148 Route 2, Preston, CT, 860-889-1999

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- **Survey Crew** - a progressive Land Survey Company located on the Connecticut Shoreline looking for a highly-motivated person to join our team. The candidate must have experience in AutoCAD and field work. This position is open immediately, salary is dependent on experience. Call the CALS office for more information.



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6	7	8	9	10	11
12 Lincoln's Birthday	13	14 	15	16	17	18
19	20 Washing- ton's Birthday - President's Day (holiday)	21	22 CALs celebration of the Terminalia	23 - CALS BOD Meeting - CT Laws & Regs. Seminar	24 Flag Day	25
26	27	28				

Those born in February are honest and creative with a unique and original sense of style. Others admire them for their positive outlook on all aspects of life.

Color of the month is purple.

Happy birthday February babies!





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email: kathy@ctsurveyors.org
