

Empire State Surveyor



A publication of the New York State Association of Professional Land Surveyors

Making Technology Work for You



January | February 2015

Techniques & Technologies

the industry's latest offerings to better your business

POSITIONING SOLUTIONS BEGIN HERE



TOPCON — Carlson — SOKKIA — FARO

New products available at ADMAR Positioning Solutions

- PS Robotic Total Station
- ES Total Station
- HiPer SR
- TOPCON Telsa
- Carlson Surveyor + GPS
- Faro Focus 3D

For more information:

Evan Spencer - 585.208.6791

Paul Savas - 315.350.1355

www.admarpositioning.com



Authorized Topcon & Carlson Medallion dealer

Providing Sales, Technical Support and Training Across New York State.

Albany
878 Old Albany Shaker Rd.
Latham, NY 12110

Binghamton
449 Commerce Rd.
Vestal, NY 13850

Buffalo
1394 Military Rd.
Buffalo, NY 14217

Canandaigua
2390 Rochester Rd.
Canandaigua, NY 14424

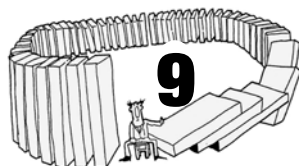
Rochester
1950 Brighton Henrietta TL Rd.
Rochester, NY 14623

Syracuse
6014 Drott Dr.
E. Syracuse, NY 13057

*Dedicated to the advancement of knowledge, and
the professional growth, of the men and women of
the land surveying profession.*

VOL. 51 NO. 1
JANUARY / FEBRUARY 2015

The Law of Unforeseen Consequences
by Cyn René Whitfield



A Case Study with a Focus on a Surveyor's
Professional Credibility
by Richard C. Brooks, PLS



Redefining the Surveyor of the Future
by Jerry Carter, CEO, NCEES



This magazine is the official publication of the New York State Association of Professional Land Surveyors, Inc. and is published for the membership and for the general benefit of the surveying profession. The opinions and positions stated in signed materials are those of the authors and not by fact of publication necessarily those of NYSAPLS, Inc. or this magazine.

The presence of advertisements for products and services in this magazine does not constitute an endorsement of those products and services by NYSAPLS, Inc. or this magazine. Representations contained in such advertisements are the sole responsibility of the advertisers, and the association and this magazine are not responsible for any misrepresentations or errors which may be contained in such advertisements.

NYSAPLS® is a registered trademark used for association services, namely, promoting the interests of licensed land surveyors and owned by New York State Association of Professional Land Surveyors, Inc.

Postmaster: Send address changes to: NYSAPLS, Inc., 146 Washington Avenue, Land Surveyors Building, Albany, NY 12210.

The *Empire State Surveyor* is published bi-monthly by NYSAPLS, Inc. For information about becoming a member and receiving this magazine, please call 518-432-4046 or visit our website at www.nysapls.org.

Our guarantee: Our goal is to provide truly exceptional offerings and customer service, and we won't be happy until you are. If any programs, products or services of NYSAPLS, Inc. do not fulfill our promise, we will make the situation right or refund your money.

To order article reprints or order back issues, please call 518-432-4046.

DEPARTMENTS

Call for Presentations	22	Member News	22	Short Takes	21
Classifieds	23	Message from HQ	5	Sustaining Members	32
Important Dates	7	Minutes	29	Webinar	21
In Memoriam	28	President's Corner	3	Workshops	24-27

Providing high quality digital topographic mapping - est.1977

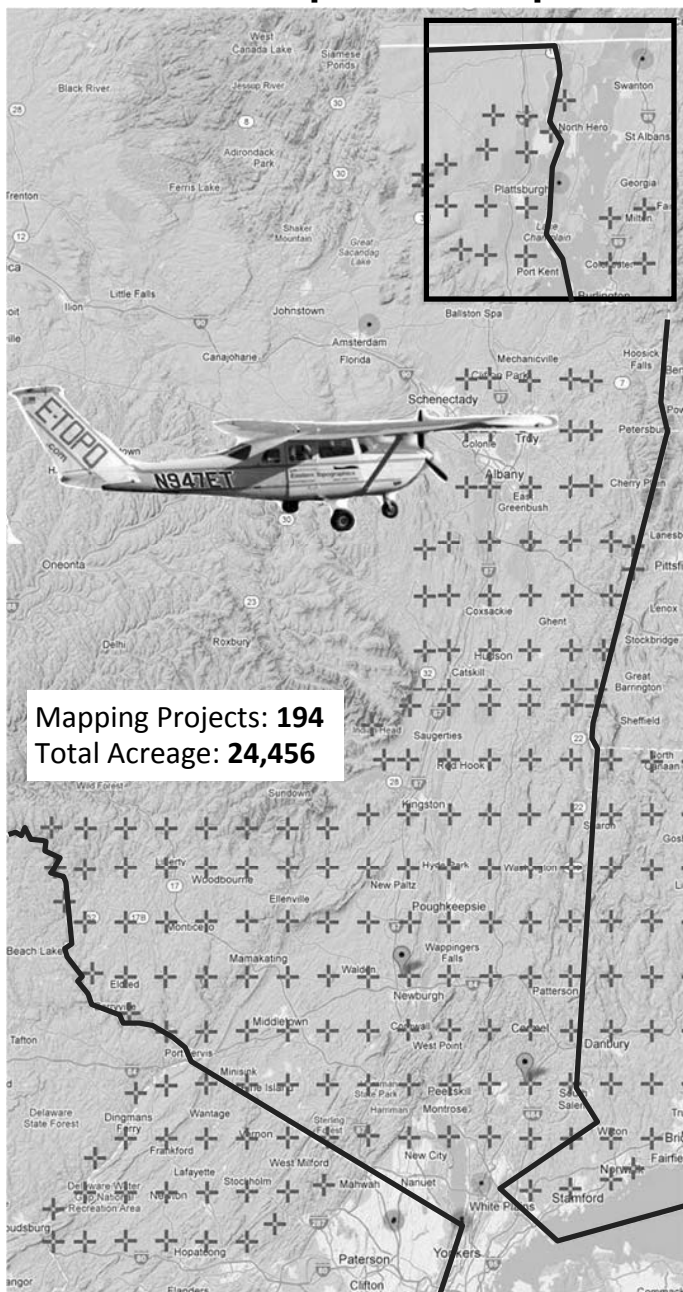
www.e-topo.com/map/

LOW ALTITUDE IMAGERY ONLINE

Over 210,000 images - Low resolution scans represent high quality aerial photos captured with a USGS calibrated cartographic camera suitable for detailed engineering level mapping (1"=40' 1/2' DTM).

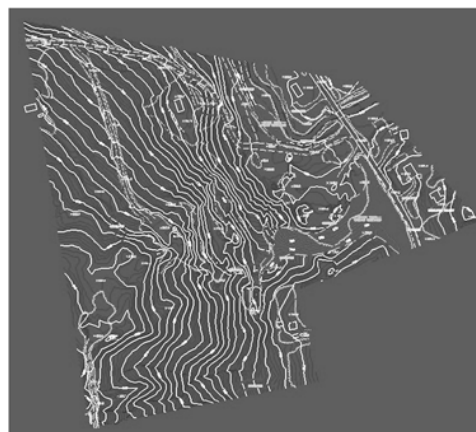
BIM & 3-D Mapping Collection

Download free imagery or submit a topographic mapping request for proposal (RFP)



TIGHT BUDGET?

Every proposal includes our **LOW PRICE GUARANTEE.**
See website for complete details.



One + icon represents 325 photo centers - click icon nearest to area of interest. Continue to select until low res aerial image appears. Fast alternative (Top Left) - enter address - hit Go!

Phone: (603)-569-2400

Email: mail@e-topo.com

Fullpage-20140630-NY.pub



ASPRS
20140225-NY



CALS



MSLS



MALSCE



NHLSA



NYSAPLS



RISPLS



VSLS

SUSTAINING MEMBER

NYSAPLS, Inc.
President and CEO
Joseph G. Malinowski, LS

EXECUTIVE BOARD

Gary L. Thompson, LS,
Executive Vice President
Greg J. de Bruin, LS, Vice President
Daniel E. Marvin, LS, Treasurer
Kenneth M. Slaughenhoupt, LS,
Secretary
J. Steven Boddecker, LS,
Executive Director

BOARD OF TRUSTEES

Robert R. Allen, LS
J. Steven Boddecker, LS
Patricia L. Brooks, LS
Robert G. Cross, LS
Joseph E. Dioguardi, Jr., LS
John R. Ennis, LS
Robert S. Green, LS
Charles E. Hartnett, LS
R. Ronald Kreiling, LS
John E. McIntosh, Jr., LS
Daren L. Morgan, LS
Robert R. Prescott, LS
Malcolm M. Shaw, LS
Robert A. Smith, LS
Edwin Summerhays, LS
Glennon J. Watson, LS
Marie Welch, LS

NYSAPLS HEADQUARTERS

146 Washington Avenue
Land Surveyors Building
Albany, NY 12210
518-432-4046
www.nysapls.org
contactnysapls@nysapls.net

Editor-in-Chief &
Director of Operations
Amber Anderson
amber@nysapls.net

AFFILIATED ASSOCIATIONS

Allegheny Plateau Association of Professional Land Surveyors | Black River Valley Association of Professional Land Surveyors | Catskill Area Association of Land Surveyors | Central New York Society of Land Surveyors | City Surveyors Association of Greater New York | Delaware-Hudson Land Surveyors Association, Inc | Eastern New York Society of Land Surveyors, Inc | Genesee Valley Land Surveyors Association | Long Island Association of Land Surveyors Inc | Mid-Hudson Valley Association of Land Surveyors | Mohawk Valley Society of Professional Land Surveyors | Nassau-Suffolk Civil Engineers Inc | Niagara Frontier Land Surveyors Association | Northern New York Association of Land Surveyors | Southern Finger Lakes Association of Professional Land Surveyors | Southern Tier Association of Land Surveyors | Surveyors Association of Queensboro Inc | Westchester-Putnam Association of Professional Land Surveyors



[PRESIDENT'S CORNER]



Joseph Malinowski, LS

Transits, plumb bobs, tapes, chains, stadia rods, plane tables and alidades, a Leroy lettering set and an ammonia based diazo printer. This was my introduction to land surveying thirty five years ago. A mobile mapping unit, high definition laser scanners, GPS units, robotic total stations, digital levels, and a three dimensional printer now populate my equipment room and office. I won't go into the evolution of software and computers since the days of the HP41 with Survey Pac and DOS based programs. We've come a long way in a relatively short period of time. I'm not alone in this; many of us have followed a similar progression. This embrace of ever changing technology is admirable for what is often described as a graying profession.

It is true that as you look around the room at many land surveying conferences, association meetings and seminars you will see many attendees closer to retirement than to college. What you will also see is a smaller group of younger practitioners and technicians that have chosen to make a career of the Profession of Land Surveying. This group of young professionals and pre-professionals has a palpable energy about them that is refreshing and energizing.

Never has this been more apparent than at the strategic planning session held in mid November at Lake George. While many of the attendees were long standing members of the Association there were a significant number of fresh faces. The dynamic between the two groups helped make the session a success in the development of goals for the Association. As the session progressed I noticed a seeming transformation as the younger members embraced the process and freely voiced their opinions on what we should be doing to attract people to the profession, enhance the public perception of the profession and many other topics.

I would like to recognize a few members who have stepped forward to help us achieve our goals. Christine Gayron has offered to serve as the NYSAPLS chair of the NSPS Young Surveyor's Program. David Schmidt with the assistance of Jonathan Navagh will serve as the New York State liaison to the NSPS for coordination of efforts to promote National Surveyor's Week this coming March.

The commitment shown by these three individuals as well as all of the participants, but particularly those fresh faces, in the strategic planning session serve to energize those who have been working tirelessly for many years on behalf of the Profession.

I encourage everyone to continue to engage students, technicians and the newly licenced. Invite them to a meeting, ask their opinion and show them that their voice matters.

The future of the Profession of Land Surveying in the State of New York is in good hands.



Complete Robotics Solutions

Leica Viva TS12

Performance Robotic Package

FEATURES:

- Available in 2", 3" and 5" Models
- 400 Meter Reflectorless Range
- PowerSearch – finds any prism type in seconds
- Full-featured data collector options
- Optional on-board software application
- Fast, accurate and reliable measurements

STARTING AT
\$461²⁸
PER MONTH



Leica
Viva
CS15

GeoMax Zoom 80

Robotic Total Station

FEATURES:

- Available in 2" and 5" accuracies
- 1000 Meter Reflectorless Range

STARTING AT
\$425⁰⁰
PER MONTH

GEOMAX



STARTING AT
\$457⁹⁵
PER MONTH



Ranger 3X

Spectra Precision Focus 30

Simply Powerful

FEATURES:

- 2", 3", 5" accuracy
- Spectra Precision Survey
- Pro on-board SW
- LockNGo™ tracking technology

Surveyor +

MicroSurvey
FIELDGenius

CARLSON
SURVCE



1-800-241-6223 | www.allenprecision.com



Happy New Year! On behalf of the NYSAPLS Headquarters staff, we wish you, your family and staff a happy and healthy 2015.

Just a friendly reminder, National Surveyors week coming up in a couple months, March 15-21, 2015. Be sure to visit our website, along with www.nsp.us.com for opportunities to participate in events to promote the surveying profession as a whole. Surveyor's week gives us the opportunity to introduce the newest generation to the surveying profession. It's your time to shine and show off what you do and how you do it.

There are several ways to participate in Surveyors week. One of the easiest ways to bring recognition to the profession is by obtaining proclamations from your local government offices. Sample proclamations are available on the NSPS website. Other activities include holding a local Trig-Star competition, working with the Boy Scouts to help them earn a survey merit badge, participating in GPS day, or holding a career day at your local high school.

However you choose to get involved, please know you are helping to educate the public, promoting awareness and supporting the future of your profession. To help you get started, NSPS has put together a "National Surveyors Week Volunteer Kit", which can be found on their website. The document provides helpful tips on how to request a proclamation, how to get involved with Trig-Star, links to step-by-step directions on the scouting badge, and much more.

Do you have a story you'd like to share in our magazine? We love printing member generated news articles in our publication. Send your news stories and articles to amber@nysapls.net.

As always, thank you for your support.

Sincerely,

Amber Anderson



*Would you like to see your article published in this magazine?
Email your submissions to our office for consideration today.*

contactnysapls@nysapls.net

Now it's easier than ever to **handle** the **curves** the field throws at you.

MTS presents the revolutionary new Leica Viva Complete Surveying System

The elegant, ergonomic curve of the TPS data collector typifies the sophisticated design of Leica's new top-of-the-line Viva surveying system.

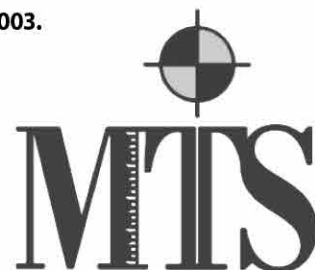
Leica Viva's comprehensive, versatile tool kit includes:

- Viva GNSS
- Viva TPS
- Viva GNSS & TPS
- Viva Controllers and SmartWorx Software



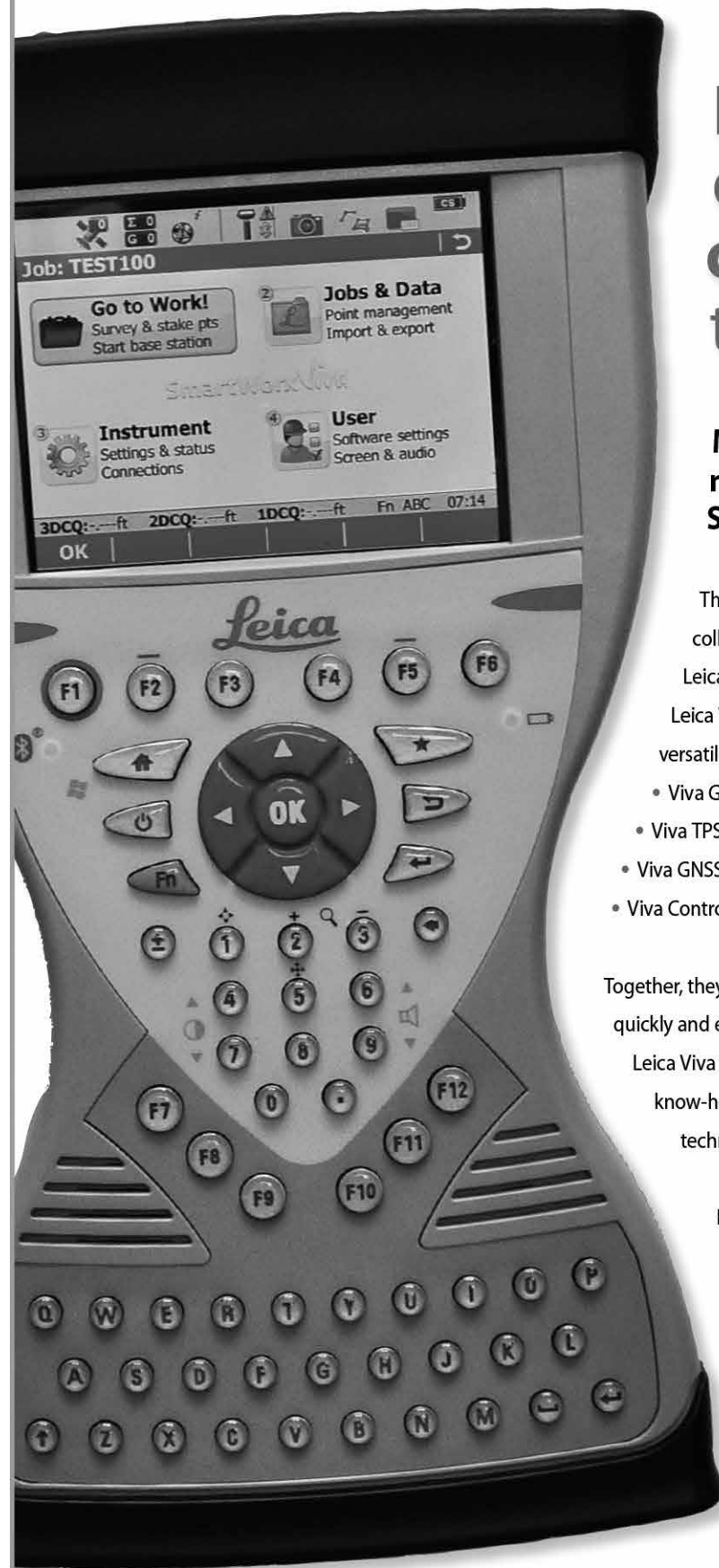
Together, they enable you to complete any project more quickly and easily than ever before. Best of all, every Leica Viva product comes with all the support and know-how of MTS, the leading measurement-technology source since 1983.

For more information about the shape of surveying to come, call **MTS** today at **800-322-5003**.



Your **Measurement Technology Source**
www.mainetechnicalsource.com

Yarmouth, ME | Woburn, MA | Syracuse, NY | Wappingers Falls, NY



February 4-6

NJSPLS Annual Conference

Visit www.njspls.org for details.

February 6

Introduction to GIS

presented by Russell Aicher

First Friday Webinar Series – See page 21 for more details.

February 19

Deadline to register for April 2015 LS Exams

Visit www.ncees.org for more information.

March 6

First Friday Webinar Series – Save the date, topic TBD

March 6-7

NYSAPLS NYS-Specific LS Exam Review Workshop

See page 24 for details.

March 15 – 21

National Surveyors Week

March 20

NYSAPLS Board of Directors Meeting

6:00pm – 10:00pm

Hilton Garden Inn, New Scotland Ave, Albany, NY

Need overnight reservations? Call the Hilton directly at

(518) 396-3500 and mention you are with the NYS Land Surveyors for our discounted rate of \$109.

April 10

First Friday Webinar Series – Save the date, topic TBD

April 17-18

Land Surveying Licensing Exams PS/FS & NYS Specific

Visit www.ncees.org for more information.

May 1

First Friday Webinar Series – Save the date, topic TBD

May 4-8

NYSAPLS Spring Workshops:

New York's Property Boundary Law: The Doctrine of Practical Location and Related Doctrines

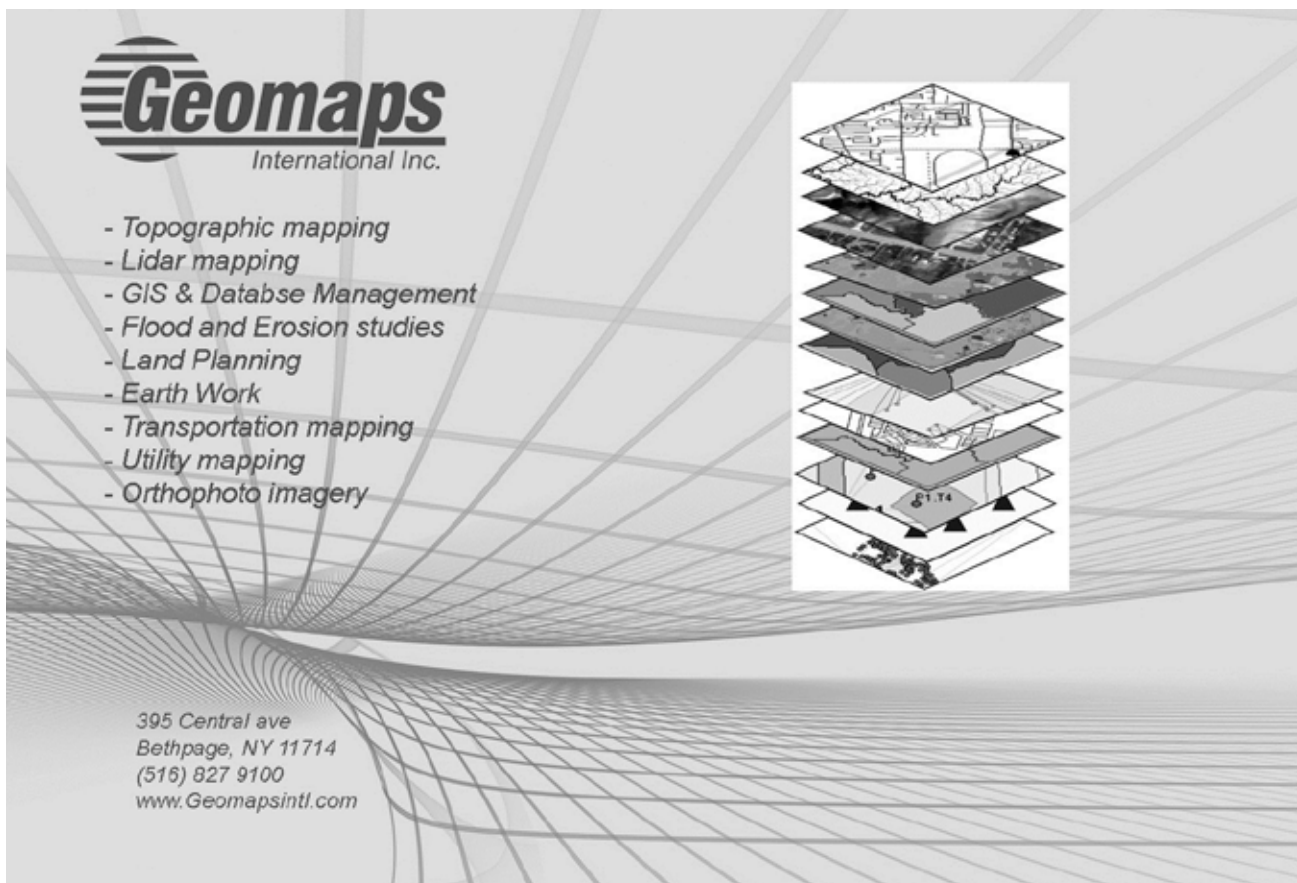
See page 26 for details.

May 15

NYSAPLS Board of Directors Meeting

6:00pm – 10:00pm

Location TBD



Geomaps
International Inc.

- Topographic mapping
- Lidar mapping
- GIS & Database Management
- Flood and Erosion studies
- Land Planning
- Earth Work
- Transportation mapping
- Utility mapping
- Orthophoto imagery

395 Central ave
Bethpage, NY 11714
(516) 827 9100
www.Geomapsintl.com

TIRED OF THE SAME OLD ANSWERS TO YOUR BUSINESS NEEDS?

TALK TO INSURE CARE – EXPERTS IN LAND SURVEYING SOLUTIONS

INSURE CARE SPECIALIZES IN PROVIDING COMPREHENSIVE INSURANCE COVERAGE TO LAND SURVEYORS. WE HAVE A UNIQUE BACKGROUND AND EXPERTISE IN THIS AREA, WHICH GIVES OUR CLIENTS A DECIDED ADVANTAGE WHEN IT COMES TO DETERMINING THEIR INSURANCE NEEDS.

CUSTOMIZED SOLUTIONS FOR BUSINESS:

- Professional Liability – Including Contract Review, Sample Contracts
- Valuable Papers – Do you really understand how this coverage works?
- Business Valuation & Succession Planning
- Workers Compensation - Employers are at risk if coverage is not correct!
- Automobile, Field Equipment, General Liability

CUSTOMIZED SOLUTIONS FOR EMPLOYEES:

- Do You Know What Most Land Surveying Businesses are Offering Employees as Benefit Plans? We do. Solutions for retaining and attracting the best party chiefs, field crew, draftspeople and more!
 - Exclusive Employee Benefit Solutions for Land Surveyors including:
 - Key Person Insurance, Long Term Care, Disability Income
 - Health Insurance Solutions that don't break the bank

CALL OR E-MAIL US FOR A QUOTE OR TO ARRANGE A MEETING



9 Greenhaven Way,
Centerport, NY 11721
Finola Bianco
1.877.COVER.LS (268.3757)
finola@insurecarebrokers.com



The Law of Unforeseen Consequences in Surveying

A collection of applied experiences of Michael R. Frecks, PLS.
by Cyn René Whitfield



Michael Frecks founded Terrametrix, LLC in 2008 to meet the needs for safer more efficient roadway and streetscape documentation for surveyors using 3D laser technology. His extensive experience in high tech 3D laser scanning as a consultant and advisor, along with 37 years of experience in the field of land surveying and a PLS since 1992, makes him an innovator in the field. Michael's experience of solving problems in the AEC disciplines has enhanced the efficiency of laser scanning by identifying which tools to use for specific results and is an advocate of the use of 3D imaging systems to accurately characterize "as-is" conditions of existing facilities. This approach to field measurement and documentation increases the accuracy, availability and usability of virtual, smart object modeling for BIM, CIM and TIM within the design and life cycle of a facility. His career project portfolio includes documentation for world-wide UNESCO identified sites; plant environments including nuclear and processing facilities; architectural documentation of theatres, plazas and historic buildings; and transportation/civil documentation.

Traditional land surveying data has been gospel since humans built their first large structures. "I marveled at the ac-

curacy the ancient surveying rope stretchers achieved when I was in Egypt in 2003 documenting the Luxor Ramesseum with modern LiDAR technology," said Terrametrix President, Michael R. Frecks, PLS. "The nearly perfect alignment from structure to structure was a testament to the Egyptians' command of surveying."

"Even today, with current LiDAR technology collecting millions of points, we still are being held to the boots on the ground findings because nothing else, until now, has challenged the surveyor's accuracy," said Frecks. "We continually have to account for LiDAR data accuracy against traditional survey accuracy because that is the 'trusted standard'." "No one thought of challenging Simeon De Witt when he mapped the Empire State and published this landmark map in 1802. "We didn't challenge it because we didn't have the resources to say it wasn't so or yet incomplete," said Frecks.

As a surveyor for 37 plus years Michael Frecks knows that even retracing his own crews' traditional surveys would have different accuracy results. Why? Unintended consequences. In 1936, Robert K. Merton, a distinguished American sociologist from Columbia University in Manhattan, listed five possible causes of unintended consequences which Frecks has coupled with examples from his own personal experiences in the survey field:

continued on page 11

Aerial Mapping Services

Digital Orthophotos

Photogrammetric Professionals providing technologically advanced digital photogrammetric mapping services. As proven by our track record we are committed to your needs and schedule providing the best digital solution to your software requirements.

Free consultation to achieve the best product for your project.

- **Aerial Photography**
- **Airborne G.P.S. Photo Control**
- **G.P.S. Control Surveys**
- **Analytical Aerial Triangulation**
- **Digital Topographic Mapping**
- **Digital Terrain & Elevation Models**
- **Digital Orthophotos**
- **GIS/LIS Digital Base Mapping**



LaFave, White & McGivern, L.S., P.C.

LAND SURVEYORS & PHOTOGRAMMETRISTS

Founded in 1946

*133 Commercial Street
Theresa, NY 13691*

*Telephone: 800-427-9036
315-628-4414
Fax: 315-628-4529*

*Email: info@lafavewhitemcgivern.com
Web: www.lwmlspc.com*

*“Innovative solutions in photogrammetry
through advanced technology”*

1. IGNORANCE

It is impossible to anticipate everything which leads to incomplete analysis. It is often said make a plan then throw it away. It is impossible to know whether or not that pin or bench mark will still be there. A land surveyor knows he has to adjust the plan to environmental factors more than anything else.

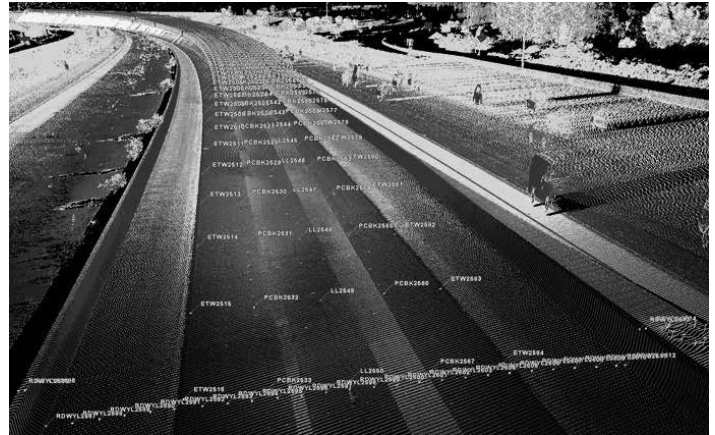
Survey example: In 2012, Terramatrix used mobile LiDAR to scan a small test area of concrete highway with an asphalt shoulder for a northern based DOT. The purpose was to show accuracy between static (tripod mounted) LiDAR and Terrestrial Mobile LiDAR Scanning (TMLS) performed in February. This particular DOT's surveyors already had a comfort level with static LiDAR data using it in house, but TMLS was still a fairly new concept. The area had been previously static scanned in August with control targets set by their department surveyors. In February, TMLS was used to new control points, also set by the DOT's department surveyors. When the two were compared the TMLS data missed the static control points by 2 cm (.79 inches). Not a good fit! However, the mobile LiDAR was within 0.03' of the TMLS control points. "Can't we even run levels?" was the DOT's response. What was not anticipated in the analysis was the extreme weather differences between the two scans and control points. What TMLS proved was that its accuracy was even complete enough to show the 2 cm frost heave.

2. ERRORS AND HABITS

Action that involves motives and choice between various alternatives can lead to undesirable results. "I have seen many reasons for human error in the field from bubble distraction to transposing numbers to bad habits not checking back sights," said Frecks. Any survey chief who thinks his crew uses as much diligence at the end of a long day as he does at the start of the day is basing field data on the unintended consequences of distraction, boredom and complacency. These errors and habits also lend itself to the technology.

Survey example: In the spring of 2009, Terramatrix used the StreetMapper TMLS mobile 3D laser scanning system at a Caltrans test area located in the San Diego to prove the technology. An area was specifically designed to evaluate mobile laser scanning systems and its accuracy. The route chosen was to allow companies advanced in mobile laser scanning technology an independent evaluation against 1500 known control points set by Caltrans. TMLS proved an accuracy with and Root mean square (RMS) error of 0.022'. What was more revealing was the ability to see the limitations in the TMLS data of the total station set up locations when the data was

colorized. When running trig levels it is important to know the limitations of the distance between a 1 second instrument at 200 feet; a 2 second instrument at 400 feet or a 3 second instrument at 600 feet.





Client Satisfaction Soars At GEOD

Professional Services Offered

x x x

Low Altitude Mapping &
Photography

Fixed Wing Photography

Base Mapping for GIS

Digital Orthophotography

Planimetric/Topographic Mapping

LIDAR Mapping

Subsurface Utility Markouts Using
GPR & M-Scoping



Transportation

Environmental

Site Planning

x x x

Industries Served



GEOD CORPORATION

AERIAL PHOTOGRAMMETRY • LAND SURVEYING

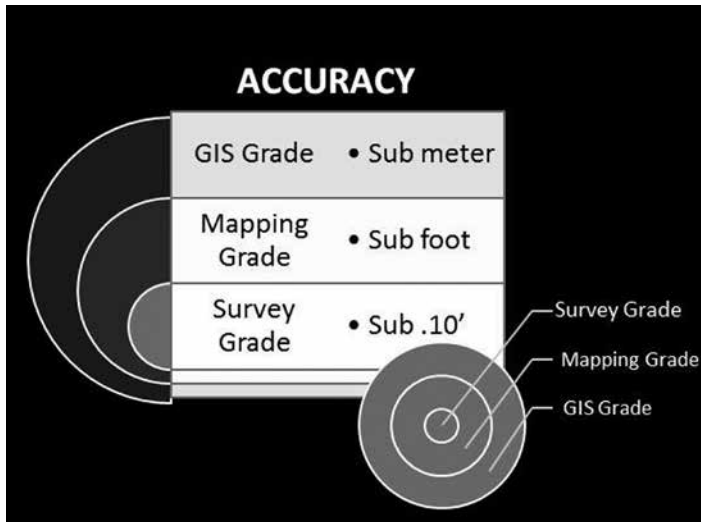
**“ Ask about our Stock Photography
Of the Lower Hudson Valley ”**

24 Kanouse Road
Newfoundland, NJ 07435

(973) 697-2122 Fax: (973) 838-6433

www.geodcorp.com

trying to make survey grade data out of GIS grade data. You can always dummy down information not smarten up incomplete data so collect as much information as accurately as possible and make it available to all stakeholders. Road surface for design and sign inventory asset management along with bridge clearances and overhead utilities can all be captured traveling at posted speed at a fraction of the cost when shared across departments. Map it once use it many times.



Three types of "survey" as we view it for final position in a coordinate system. Survey Grade sub 0.10' accuracy is for design projects such as highways, RR, airports and such. Mapping Grade sub foot is used for planning type projects or street scape projects.

GIS Grade sub meter is for GIS projects such as sign inventory and asset management. The second part of the accuracy is the relative accuracy position or how accurate the points are to themselves in a given area.

4. BASIC VALUES REQUIRE OR PROHIBIT CERTAIN ACTION

Long-term consequences may eventually cause changes in basic values. Frecks advocates, "As surveyors in the 90's and early 2000 we saw part of our work transition to GIS. I've worked through the advancement in technology. Each new advancement had us questioning the longevity of the profession. Yet, each new step as we embraced it created unique challenges, new opportunities for land surveying and a more efficient way of mapping the land. From the chain, to the electronic distance measurement (EDM), Total Station, robotic total station, GPS, static scanning and now Terrestrial Mobile LiDAR Scanning (TMLS), surveying and I have walked the walk. Back in the 90's how many thought there would be a total station and GPS unit on board almost every survey truck? So, it is not uncommon that this TMLS technology would again have our profession asking "what will be left of us?" "We must remember that Land Surveyors have a special duty that no other professionals have because of our unique understanding of spatial relationship when it comes to documenting and inter-

preting the land," said Frecks. "This inbred spatial recognition expertise does not change regardless of the tools we use."

Technology is constantly changing, and so must the surveyor's tools. TMLS is another tool that can help us perform larger projects, faster and most importantly... safer.

Survey example: Using the right tool for the job often is hindered by in-house equipment to justify a utilization rate and can jeopardize a project. It is equally important to understand when LiDAR should be the correct tool to use. In 2013, Terramatrix was called in to document 8,800 feet of tunnel serviced by a major metro rail. Acquiring this data with traditional boots on the ground would not only be hazardous and time consuming but would also involve track interruption for long periods of time, a costly service to the track. The versatility of the StreetMapper, used by Terramatrix, allowed the TMLS mobile platform to be mounted on a hy-railer in less than an hour. Additionally, the coupled solution of the StreetMapper platform consisting of GPS, an Inertial Measurement Unit (IMU) and survey control to a state plane coordinate system allowed the ability to be without GPS for approximately 14 minutes in the tunnel. The result was a complete 3d environment for Positive Train Control (PTC) assets and top of rail elevations which was then virtually extracted by technicians at the desktop. The savings to the client eliminated field revisits. The savings to the owner was data obtained in otherwise restricted access. The savings to the surveyor was safety.

5. SELF-DEFEATING PROPHECY

The fear of some consequence drives to find solutions before the problem occurs.

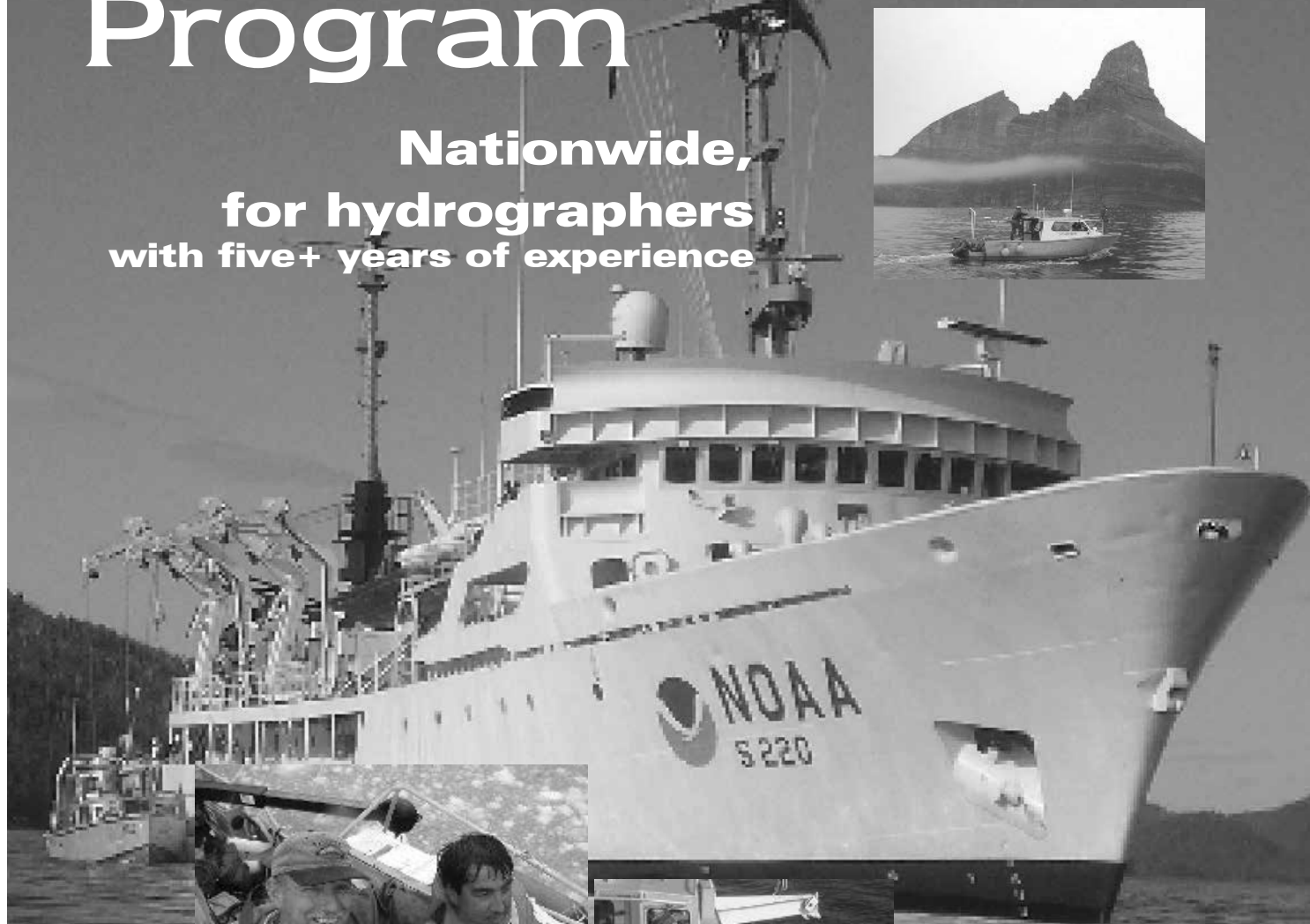
Survey example: Obtaining reliable utility information for highway development and life cycle management has long been a troublesome problem for highway designers in the United States according to the US Department of Transportation Federal Highway Administration. The underground SUE process traditionally combined civil engineering, ground penetrating radar (GPR), test holes, vacuum excavation and GIS to create an intelligent 3D infrastructure below ground. The issues involved how these features relate to above ground geophysics. When it comes right down to assigning blame to the current reliable location of both above and below ground utility location it is a zero-sum game. The bottom line is municipalities just don't keep good records and those they have are not available across all the platforms". Technology, expansion and, modernization have added to the ability to maintain records. Therefore, updates are scattered, inaccurately referenced and lack standardization. Currently, utility information comes from a plethora of sources: project plans (design, red-lined),

continued on page 15

NSPS/THSOA

Hydrographer Certification Program

**Nationwide,
for hydrographers
with five+ years of experience**



Contact us
by phone: 240-439-4615 ext. 105
by e-mail: trisha.milburn@nsps.us.com

www.nsp.us.com

utility Records (designed/ as-built), maintenance/repair records, visual observation and traditional field survey with no centralized records storage or responsible caretaker. The foundation to building a map of a city must involve each of their most important stakeholders, including government officials, citizens, and the private sector, in the process, or face tremendously difficult obstacles in making its vision a reality. Each layer to be managed by the relevant agency, gathered to form a complete package which can then be selectively open to third-party application developers and users. That's the concept behind "smart cities" for transportation. Again, map it once use it many times is about getting from here to there seamlessly in a dynamic world.

IN SUMMARY

Applying Merton's causes to my land surveying experience doesn't assign blame or even prove that traditional surveying or TMLS is inaccurate. What the comparison does is to expose that even with technology it takes the surveyor's training in spatial recognition to map the land accurately. In fact these examples to Merton dispels the fears that technology is eliminating the surveyor but instead it is empowering those of us that take the challenge with an open mind. Modern technology is helping the traditional land surveyor. Maps depend on

certain points of reference but they are flat and we live in a 3D world. With computerized maps we can extract data at the desk top; fly through and environment to see things at very large and very small scales from different points of view; and we can represent things on a sphere and rotate it around so that the spot we're interested in isn't distorted. It's the training of the surveyor that can identify simple scale anomalies between Geographic and Albers. Peeling the sphere of an orange to a flat surface is now available in a 3d world for accurate representation.

Welcome to the 3D world of the next generation of Land Surveyors.

About the author:

Cyn René Whitfield is a nationally published journalist who has been involved in marketing for land surveying and 3D/4D laser scanning documentation for the past 29 years. She has a Bachelor of Science degree in Broadcast/Journalism, an Associate's Degree in Electronic Imaging and a Master's Degree in Managerial Business Communications. She is currently the business development coordinator for Terramatrix LLC (www.terramatrix3d.com), Omaha, Nebraska. She can be reached at cwhitfield@terramatrix3d.com

**Accept credit cards wherever
and whenever you do business**



**Effective rate UNDER 2.75%
for majority of members**

Contact Nicholl at RCSC
(800) 442-3589 | NYSAPLS@retailcouncilnys.com

Effective rate = the average rate you pay per transaction. To figure out your effective rate, take the total amount of fees you paid per month and divide that by the total dollar volume of the transactions you processed per month.



Help navigate the best NYSAPLS Membership experience.

*We are always looking for volunteers
to serve on our various member
committees. Get involved today.
Contact our headquarters office to
inquire how you can make a difference.*

Phone: (518) 482-4046

Email: contactnysapls@nysapls.net

GOLDEN AERIAL SURVEYS

Supporting NYSAPLS for over 25 Years

Providing Professional Photogrammetric Services to the Civil Engineering and Surveying Industry since 1984.

Exceptionally Accurate and Complete Mapping Services,
using the latest innovations in Technology and Software.

Our Services Include:

- Aerial Photography - Airborne GPS - Digital Imagery and Film
- Full Analytical Aerial Triangulation
- Digital Planimetric and Topographic Mapping Services
- Digital Orthophoto Imagery
- GIS Base Mapping and Consultation Services
- Photogrammetry Consultation Support and Planning

Let Golden Aerial Surveys
be a part of Your Team for
Success



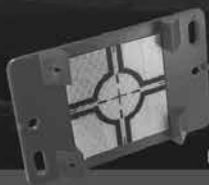
**We have an Extensive Library of Low Altitude Photography
available for 1"=40' mapping with 2' contours.**

141 Mt. Pleasant Rd., P.O. Box 747, Newtown, CT 06470

Phone: 203-426-3322 Fax: 203-426-8867 maps@goldenaerialsurveys.com

SURVEY MARKING PRODUCTS

- SURVEY MARKERS & MONUMENTS
- CONCRETE MARKERS & DRILL BITS
- SURVEY NAILS & WASHERS
- REFLECTIVE TARGETS & PRISMS
- FLAGGING & WITNESS POSTS



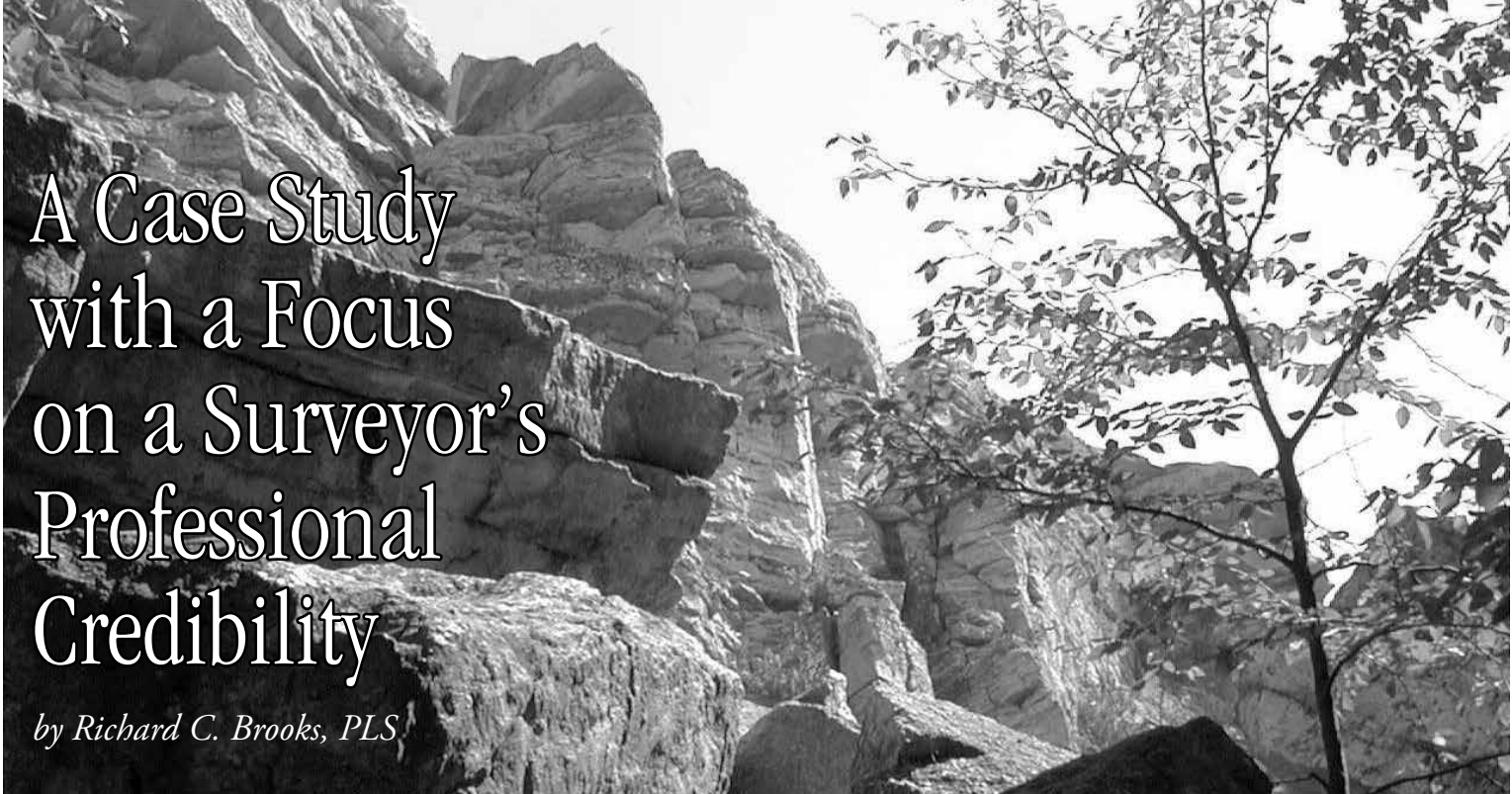
REQUEST A CATALOG
877.686.8561



FIND US ONLINE
www.berntsen.com

MARKING THE INFRASTRUCTURE OF THE WORLD™ | WWW.BERNTSEN.COM

Berntsen®



A Case Study with a Focus on a Surveyor's Professional Credibility

by Richard C. Brooks, PLS

State of New York
Supreme Court, Appellate Division
Third Judicial Department

Mohonk Preserve, Inc. Respondent
V
Christopher E. Ullrich, et al., Appellants

Decided and Entered: July 10, 2014

As licensed practitioners of a specialized profession, we are in the position of being able to be qualified by a judicial court as an expert witness. Many times we are hired as an expert witness although we are often dragged into a legal action to defend our boundary line opinion from other surveyors.

The courts recognize two kinds of witnesses: the expert witness and the general or "fact" witness. An expert is any person who, by virtue of his or her education, training and experience in a science, a trade, or an art, has information that is not likely to be known by the average professional, juror or judge. Your role as an expert is to educate the judge and jury in the complicated aspects of surveying as they apply to a particular adversarial procedure.

Much like a boundary line determination, for a land surveyor there is no mathematical formula that trial judges can use to determine if you are in fact an expert. The individual judge uses personal discretion to ascertain the qualifications of the potential expert. Therefore a proposed expert witness may be

challenged in court by the opposing side as to the stated professional credibility. The mere fact that you are licensed to practice Land Surveying does not make you an expert in Land Surveying. You need to arrive in court with an established professional credibility and be prepared to defend that credibility.

The court case serving as the backdrop for this article is a recent decision rendered by the State Supreme Court, Appellate Division, Third Judicial Department. On appeal was a decision and judgment by the Supreme Court in the matter of Mohonk Preserve, Inc. vs Ullrich, et al. The Appellate memorandum and order was decided and entered on July 10, 2014.

Originally, the issue was a 435 square foot and an 871 square foot driveway encroachment onto the plaintiff's land. In 2006, after a few years of the parties discussing the situation, the plaintiff hired our firm to survey the common boundary lines between the two parties. The survey was to be used to determine the precise extent of the encroachments and serve

continued next page

as the basis for settlement. The defendant's deed purported to convey a parcel of 15 acres while the plaintiff's land amounted to over seven thousand acres. The defendant's land was practically surrounded by the plaintiff's land. After the completion of the 2006 survey, the hostile actions of the defendants escalated to include the cutting of timber on the plaintiff's land. In 2009, at a loss for resolution of the problem, the plaintiff commenced an action to quiet title pursuant to RPAPL article 15. The suit, among other things, sought to establish the boundary lines in accordance with its survey and to remove any claims of ownership the defendant had to its lands.

The defendants counter claimed and sought to establish the disputed boundary lines in accordance with a survey produced for them in 2013. That survey, after being revised four times, expanded the ownership of the defendant from the ten acres as called for in its deed to seventy acres of land. This additional 60 acres was part of a tract of land deeded to the plaintiff in the 1970s. What in 2006 seemed to be a survey for the assistance of a simple resolution of a minor encroachment, morphed into an action of intensity and vigor usually reserved for two third-world countries at war with each other.

After a non-jury trial, with ten days of testimony, the Supreme Court entered an order and judgment. The court's decision, among other things, found that the plaintiff's survey was controlling as to the disputed boundary lines and awarded the plaintiff damages for 49 trees cut from its property. The defendants appealed this ruling and applied to the Appellate Division for relief. With a calendar date of June 5th 2014 the case was argued to the panel of four Justices.

Regardless of the circumstances that put a Land Surveyor on the witness stand, the court will weigh our professional credibility while digesting the testimony we put forth. As expert witnesses we must realize that we are not advocates for our client but rather we are advocates for our professional opinions. In many cases, where the facts do not lead the court to a conclusive decision, the expert's credibility will light the way for the court to arrive at the proper decision.

As reported by the Appellate Court decision of our background case;

"Initially, we agree with both parties' concessions at trial that, despite consideration of over 150 deeds, some stretching back into the 1700s, independent documentary evidence does not conclusively establish the disputed boundary lines. Accordingly, the record before us illustrates that each parties' expert witnesses necessarily relied on incomplete, ambiguous and sometimes even self-contradictory descriptions of relevant parcels when they drafted surveys showing the alleged placement of the disputed boundary

lines. Considering this imperfect documentary evidence, the resolution of the dispute, in large part, turned on the credibility of each party's expert witnesses' testimony in regard to the proposed surveys."

The Memorandum and Order went on to discuss the Supreme Court's decision stating;

"Supreme Court made numerous findings that testimony regarding the production of plaintiff's survey was more credible than the testimony regarding the production of defendants' survey. Plaintiff's surveyor, Richard Brooks, testified that the survey he produced was certified as being in accordance with the standards of the New York State Association of Professional Land Surveyors, and he noted that the most recent draft of the survey contained notations describing the changes made in each of the six revisions that he had made to incorporate newly-acquired information since his original draft in 2006. In contrast, the surveyor who produced defendants' survey, (name omitted), did not testify that his survey was certified to any professional standards."

The court then seems to speak to the idea of an expert advocating for his/her client:

"Even more strikingly, (defendant's surveyor) acknowledged that he had created earlier survey drafts, but that he had discarded each upon Christopher Ullrich's disapproval of the results of those surveys. Notably, defendants did not provide any additional evidence that could be reasonably interpreted as clarifying what revisions were made to defendants' survey or whether they would generally be accepted as permissible within the professional surveying community."

The document then spends the next four paragraphs detailing the deficiency of the defendants' survey finalizing with;

"In addition, (defendants' surveyor) credibility was drawn further into question based on the introduction of certain highly reliable documentary evidence that contradicted certain of his conclusions. Multiple witnesses, including (the defendants surveyor) on-cross examination, agreed that defendants' survey had omitted a certain lot by doubling the width of a different lot, a decision that directly contradicted uncontroverted evidence from a field book and map dating back to 1793."

The Memorandum and Order then works toward conclusion;

"Finally, Supreme Court properly rejected defendants' central contention that a defect in plaintiff's survey caused it to place various parcels approximately 660 feet too far to the south."

And continues;

"In light of this evidence, and providing deference to Supreme Court's assessments of the various experts' credibility, the courts finding that plaintiff's survey established the disputed boundary lines was warranted."

The Appellate Division review panel Memorandum and Order totally concurred with the Supreme Courts reliance on what it deemed as the more creditable expert witness testimony from which to draw its conclusions.

Whether you actively make a living from being an expert witness or are working on a survey that has a probability of going to court, you need to be prepared to define and defend your professional creditability. Your client's attorney, the opposing side's attorney, and ultimately the court itself need to evaluate, if in fact, you are an expert. Trial strategies may produce interesting circumstances. If you are not in fact an expert, the opposing attorney may not object to your qualification in the hopes you will stumble on the stand. Conversely if you are offering a strong professional creditability the opposing attorney may vigorously question every aspect of the claimed creditability.

The baseline document that establishes your "professional creditability" is a Curriculum Vitae. A C.V. as it is commonly referred to, is nothing more than a specific document that details your education, professional qualifications and experience. It is more technical than a resume and specific to your profession and particular to the court case you are working on. Like any technical document there is a fine line between too much information and showcasing a good quality of depth of your qualifications.

The C.V. outline that has proved successful for me is:

- » Current contact information including place of employment and title
- » Academic Background
- » Professional License, include what year and what state(s)
- » Academic/Teaching experience, including any seminars, presentations and surveying classes you may have taught (You'll need to include the dates and who was the audience.)
- » Published professional articles
- » Professional honors and awards
- » Professional Development, include any classes or seminars that you have taken pertinent to your case. If at issue is access to a lake do not include a seminar on ethics but do include one on riparian law.
- » List any previous court cases where you have been qualified as an expert witness. Include the jurisdiction, judge, year and the case recital.

- » Memberships: list the individual professional organizations along with the officer positions you have had and what committees you have served on. Remember if you are a member of a regional Land Surveyors association, you are a member of NYSAPLS and all members of NYSAPLS are members of the National Society of Professional Surveyors. Just by writing one check a year you have three membership organizations to list on your C.V.

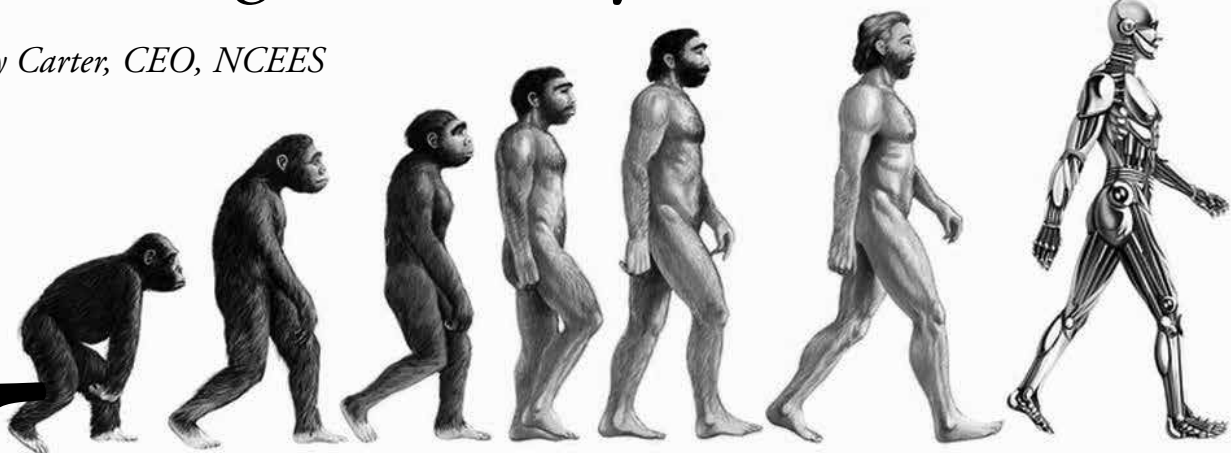
There are scores of helpful documents available online that can aid you in finding the artful balance of maintaining the reader's attention and getting your point across. Whatever you do, DO NOT overstate your qualifications. When the seat of your pants hits the witness chair you will be asked to defend your C.V. One little misrepresentation may be cause enough to bring you a great deal of discomfort and for the trial judge not to qualify you. It is your responsibility to build and then to maintain your professional creditability. It takes time and commitment, but in the end your business will financially benefit and the profession as a whole will be a better place. As professionals, that is our job, to make this profession a better place for the next generation.

About the author:

Richard C. Brooks, a third generation Land Surveyor, is the Vice President of Brooks and Brooks Land Surveyors, P.C. in Highland NY. He has served on many committees for NYSAPLS and the Mid-Hudson Valley Land Surveyors Association. He is the NYS coordinator of the Certified Surveyors Technician program for NSPS. He teaches the Legal Aspects of Land Surveying course at SUNY Ulster for their Surveying Technology degree program. Rick has been qualified as an expert witness 16 times since 1991. He is the recipient of the 2010 Pillars of Excellence recognition "Surveyor of the Year".

Redefining the Surveyor of the Future

By Jerry Carter, CEO, NCEES



"I believe that rather than facilitating the demise of the surveying profession, new and advancing technology will provide significant opportunities for surveyors who adapt through continuous training and expand their practices beyond traditional activities."

In my life, I have found that many people tend to quote either Mark Twain or Yogi Berra. I have favorite quotes from both, but a favorite Yogiism is, "The future ain't what it used to be."

Over the past several years, we have seen a drastic reduction in the number of candidates taking both the Fundamentals of Surveying (FS) and the Principles and Practice of Surveying (PS) exams. Last year, the number of FS examinees was down just over 11 percent from the previous year, and PS examinees were down almost 5 percent. And as we look back in recent years, we can see the same trend of reduced numbers.

Many have contended that the demand for conventional surveying services has decreased as the result of a weak economy over the past several years, which undoubtedly has impacted the surveying profession in a negative way. Others maintain that technological advancements have altered the traditional role of the surveyor and will ultimately lead to the demise of the profession as we know it.

I know that many of you have heard the statistic that the average age of a professional surveyor today is somewhere between 57 and 60. That has appropriately raised concern about whether there will be an adequate supply of professional surveyors in the future. We have also heard that institutions with surveying programs are scrambling to maintain an adequate student population to continue to justify their existence.

I feel that this situation offers significant opportunities for the surveying profession. I believe that rather than facilitating the demise of the surveying profession, new and advancing technology will provide significant opportunities for surveyors who adapt through continuous training and expand their practices beyond traditional activities. The future surveyor will need to diversify his or her practice and embrace new technology and social media to remain relevant. According to a paper issued by the International Federation of Surveyors, the profile of the surveyor of the future is "a geospatialist with social responsibilities."

The drastic reduction in the number of examinees taking the NCEES surveying exams has been a topic of concern among members of the Council, and action is needed to continue to promote the surveying profession and the value of licensure. I am glad to report that President-Elect David Widmer, P.L.S., intends to create a task force to consider the future of the surveying profession and how NCEES can help reverse this trend and encourage more young people to enter this rewarding profession.

Surveying has a rich history in this country and an important role to play in its future. I look forward to the task force's findings.

Reprinted from the Licensure Exchange – NCEES Newsletter, June 2014 edition.

Memorial fund established for family of young Oklahoma surveyor

On November 24, 2014 John David Crockett was operating a surveying instrument on the side of a residential street in North Tulsa, OK when he was struck by a SUV, resulting in his death on November 25. He was laid to rest on December 2, 2014.

Police say the SUV's driver lost control and drove onto the grass, hitting Crockett and his equipment. "We had safety cones set up down here at the back sight point, and we had cones on our occupy point. That's where he was," said Danny Hawley, a coworker. After hitting the man, the woman driving the SUV continued on, hit a parked car, then left the scene and went to a family member's house. Police say family convinced her to return.

John has two young daughters, 8 & 6 years old. His employer, Sisemore Weisz & Associates has established the John David Crockett Memorial Fund for his daughters, and asks that anyone wishing to make a contribution to this account please make their check payable to "Cianna and Kyra Crockett" at RCB Bank. Donations can be delivered to any branch location, or mailed to RCB Bank, 5000 West Kenosha St, Broken Arrow, OK 74012. Donations can also be delivered to Sisemore Weisz & Associates, 6111 E. 32nd Place Tulsa, OK 74135 for deposit in the fund account.

On behalf of surveyors nationwide, NSPS extends its sincere sympathy to John's family, coworkers, and friends. "He was one of us", said NSPS Executive Curt Sumner, "we are a small, but close-knit professional community. When we lose any of our fellow surveyors we are saddened, but when we lose one so young we are heartbroken for both his personal, and professional, families."

Reprinted from NSPS News and Views Dec 10 edition.

NSPS stolen equipment registry

You may not be aware that NSPS offers a registry for any NSPS member to use for listing stolen equipment, and for members to check if they are approached to purchase equipment from unknown sources. Anyone wishing to utilize the NSPS registry can access it by visiting the resources link at www.nspus.com.

US National Geospatial-Intelligence Agency To Host Lockheed Martin's Map Of The World Application

The US National Geospatial-Intelligence Agency (NGA) became the first intelligence agency to host an operational capability within Amazon Web Services' Commercial Cloud Services (C2S) environment after Lockheed Martin deployed the interactive map for NGA's Map of the World to the C2S environment.

The Map of the World initiative acts as an interface for NGA's most comprehensive and accurate geospatial intelligence data. Designed for both novice users and geospatial-intelligence experts, it serves as a platform to explore constantly-updated content and link natural and man-made features on, above and beneath the Earth to intelligence observations. Users can search for objects like bridges or railroad depots and know where the objects are located, as well as intelligence embedded within each object.

This cloud deployment is an early step in the transformation of the Intelligence Community's infrastructure and will not only cut costs and increase efficiencies for the enterprise, but will also provide the entire Intelligence Community access to the Map of the World, which is the single integrated environment where all analysts can examine data, record observations and share all known information about a threat.

Article originally published at www.defenseworld.net.



First Friday Webinar Series

Featured February Program...

Intro to GIS for Land Surveyors

Approved for NY LS/PE 1.0

February 6, 2015 • 8:30am – 9:30am

Presented by Russell Aicher

Registration Fees: Members \$49 • Non-Members \$60

The Introduction to GIS presentation will focus primarily on some basic fundamentals involved with GIS and include some potential applications of GIS. Attendees will learn about common file types for both the vector and raster Spatial Data Models, along with the importance and utilization of basic database techniques in GIS packages. This will be followed by examining several specific applications of GIS and, concluding with a brief discussion of the importance of metadata in GIS.

About the presenter:

Russ Aicher earned his bachelor's in Environmental Studies with a concentration in Information Technology at SUNY ESF. He then worked as a survey instrument operator for approximately 2 years with CT Male, before returning to SUNY ESF to pursue a masters in Environmental and Resource Engineering where his focus was on the use of remote sensing for forest analysis. While at ESF Russ was involved with the FOReST project, managing field crews collecting field data throughout the northeast and using the collected data for analysis. After receiving his masters, Russ worked at National Grid as a GIS Analyst. Currently Russ is an assistant professor at Paul Smith's college teaching courses in GIS and Surveying programs, along with being the coordinator of the Surveying Technology Program.

Welcome New NYSAPLS Members

John Andolsek, Collins, NY – Student Member
 Todd M. Babcock, Athens PA – Affiliate Member
 Jesse Bartell, Stony Brook, NY – Student Member
 Ashley Blake, Bohemia, NY – Associate Member
 Carly A. Bramer, Amsterdam, NY – Associate Member
 Zane Brouty, Croghan, NY – Student Member
 Christopher Chambers, Rochester, NY – Student Member
 Patrick Clarke, Avon, NY – Student Member
 Kenneth Conte, Southborough, MA – Affiliate Member
 Paul J. Flash, Centereach, NY – Associate Member
 Shayna Foss, Johnstown, NY – Associate Member
 Catherine Gauquie, Afton, NY – Student Member
 Adam M. Hopkinson, Williamstown, NY –

Associate Member

Nicholas Kanauer, Macedon, NY – Student Member
 Griffith Keating, Harrison, NY – Student Member
 Nicholas Klemczak, Fort Johnson, NY – Associate Member
 Cody M. Kobler, Vernon, NY – Associate Member
 Jonathon Lawrence, Warwick, NY – Student Member
 Kyle A. Mott, Wayland, NY – Associate Member
 Tyler Richardson, Ogdensburg, NY – Student Member
 Kyle D. Schuster, Rochester, NY – Associate Member
 Jeremy M. Scuderi, Syracuse, NY – Associate Member
 William J. Smith, Palmyra Alabama Associate Member
 Kara Stone, Lake View, NY – Student Member
 Floyd Sweatt, Jr., McConnells, SC – Affiliate Member
 Thomas Todd, Harrisville, NY – Student Member
 Scott Wendt, Chittenango, NY – Student Member
 George E. Williams, Saugerties, NY – Regular Member
 Tiger Supplies, Irvington, NJ – Sustaining Member

Congratulations New Licensees!

NYSAPLS would like to congratulate the following individuals who have been granted the title of Land Surveyor as an official licensee in the state of New York:

John C. Button	050948	Allegany, NY
Roderick R. Frandino	050950	Plymouth, MA
Scott R. Johnson	050947	Findley Lake, NY
Michael D. Lanphere	050946	Newport, NY
Patrick J. Miglio	050945	Rhinebeck, NY
Vincent P. Monreal	050943	Elizabeth, NJ
Matthew J. Pietro	050944	Dunkirk, NY
Michael W. Solitto	050949	Longwood, FL

Call for Presentations – 2016 Annual Conference

Share your experience and submit a speaker proposal today! Be recognized as an industry expert by your peers, be exposed to prospective clients in your industry, and be enriched by the NYSAPLS conference experience!

Going on our 57th year, the NYSAPLS Annual Surveyors Conference and Exhibition has become THE premier industry event for progressive thinking, emerging issues, and revolutionary technology advancements.

This annual three-day program features nationally-recognized presenters and award winning seminars showcasing the achievements, advancements, and developments emerging from the surveying field. It attracts leaders from fast growing companies in the land planning/real property arena who gather to share strategies for success, learn tactics from their peers, and leave with renewed inspiration.

We are seeking presentation submissions on GIS, GPS, project management, case studies, business management, technological advances and legal issues affecting the land surveying industry. Submit your abstract today!

NYSAPLS Bookstore Revamped Online



Looking for a gift for an associate, boss or friend? Want to add to your survey library? Studying for a licensing exam? We can help! Visit our NEW online store to discover over 100 titles to choose from at www.nysapls.org.

New Positions Available: Senior Engineering Technician (Survey)

Organization: Westchester County Department of Public Works & Transportation
Location: White Plains, NY
Salary: \$48,565.00 yearly starting salary
 \$60,535.00 maximum reached in four additional steps
Type of Position: Full-Time
Education Requirement: Associate's
Experience Requirement: 1-2 years

Description & Details:

Located in the Department of Public Works and Transportation – White Plains: Under supervision, an incumbent of this class assists in mapping out County structures, roads, waterlines, sewers, parks, etc. by operating a total station and survey grade Global Positioning Systems (GPS) to import field data. Work also involves processing collected survey information by using AutoCAD software, researching survey record information (maps, deeds, etc.) and Geographic Information Systems data both online and through files located within the department, as well as those located in the County's municipal offices. Work is performed both in the office and in the field, and incumbents are expected to collect survey information in a variety of field environments. Incumbents may function independently in the field, or as a lead worker of a survey crew. Supervision is not a responsibility of this position. Does related work as required.

REQUIRED: Possession of a high school or equivalency degree and either: (a) completion of a two year course* in construction technology at a recognized post high school, trade or technical school and two years of experience where the primary function of the position was surveying; or (b) four years of experience where the primary function of the position was surveying; or (c) satisfactory equivalent combination of training experience as defined by the limits of (a) and (b).

***SPECIAL NOTE:** Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.

How to Apply / Contact:

Fill out an XD10 application which is found at:
http://www.westchestergov.com/hr/adobe/XD10_AUG2011.pdf

Mail to:

Director of Administrative Services
 Department of Public Works and Transportation
 148 Martine Avenue, Room 507
 White Plains, NY 10601
 Any questions can be directed to Al Gassman, LS,
acg2@westchestergov.com

Survey Party Chief

Company: CHA Consulting, Inc.

Location: Albany, NY

Full-time position that requires Associates degree, 5-10 years' experience.

Summary:

CHA, a highly diversified, full service engineering consulting firm operating in the US and internationally, is currently seeking candidates to join their Survey Group as a Party Chief in Albany, NY.

The responsibilities include, but are not limited to, performing record research, directing construction stakeout, boundary, topographic, transportation and utility surveys. Field crew oversight. Travel is required.

Description and Details:

- Qualifications include but are not limited to:
- 5+ years of experience in boundary, topography, transportation Surveys.
- Experience in a Consulting-Engineering Firm is Preferred.
- The qualified candidate will have an AAS degree.
- Must be a self-starter and possess leadership qualities.

As a CHA employee you have options!

- Experience career growth within your field, attend trainings & seminars, or expand your horizons into new areas.
- Participate in the Mentoring program.
- Further your career with professional licensing reimbursement.
- Continue networking with paid dues to technical societies.

To apply, please visit the Career section of our website at www.chacompanies.com and reference job number 2427.

Additional exciting career opportunities in the areas of engineering, construction, planning and many other professional disciplines available within all of our office locations may also be found on our website.

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability or protected veteran status.

CHA is an EO employer – M/F/Veteran/Disability



NYS-Specific LS Exam Review Workshop

Friday, March 6, 2015 - Saturday, March 7, 2015

A review workshop customized to address the needs of surveying professionals planning to sit for the New York State surveying licensure exam.

Course Objective: To familiarize land surveying applicants, potential applicants and surveying technicians with the issues, resources and content required to successfully complete the New York State land surveying licensure exam.

Description: This review program is customized to address the needs of surveying professionals planning to sit for the New York State surveying licensure exam. The class will offer a comprehensive review of topics based on the licensing examination test blueprint, as published by the NYS Education Department Office of Professions:

- Computation/Analysis
- Documentation/Land Information Systems
- Ethics/Professional Responsibility
- Land Planning/Design
- Legal Principles
- Measurement/Location
- Monumentation
- Project Management
- Research

Time will be spent discussing testing strategies for a multiple-choice exam and how to prepare to sit for one.

Workshop Schedule*

Friday

8:00am - 8:30am	Registration/Check-in
8:30am - 12:00pm	Workshop Morning Session
12:00pm - 1:00pm	Lunch Break (on your own)
1:00pm - 6:00pm	Workshop Afternoon Session

Saturday

7:30am - 8:00am	Check-in
8:00am - 12:00pm	Workshop Morning Session
12:00pm	Session concludes

**Schedule and break times are subject to change.*

**Register Early –
Limited Seating**

Location:

Hyatt Place
20 State Farm Place
Malta, NY 12020

Our review course has been strategically planned to coincide prior to the NYS licensure exam date. Participants will leave with a voluminous reference manual containing NYS rules, statutes, laws and other pertinent study reference materials, including technical references, sample test questions and case law summaries.

Offered at reduced rates for NYSAP-LS members!! Don't miss your chance to experience an interactive, intensive preparatory session that will not only review surveying topics on the exam, but will help you understand how to prepare to take an exam of this magnitude. In exchange for this preferred rate, attendees will be requested to complete a questionnaire after the course as well as after taking the exam, to help improve the methods of teaching, material in the manual and topics covered in the course.

2-Day Workshop Fee

If you have attended this specific workshop in 2012-2014, you qualify for the "repeat attendee" discounted registration fee.

Member Fee: \$299

Non-Member Fee: \$399

Repeat attendee
(member discount) \$249

Repeat attendee
(non-member discount) \$349

Registrations received after March 1st will be assessed a \$50 processing fee.

Overnight Accommodations

A discounted overnight rate of \$109 is available at the Hyatt Place. To make your reservations, call the hotel directly at 518-885-1109. Be sure to mention our group code "NYSA".

NYSAPLS Bookstore on location

NYSAPLS will offer a selection of publications and review manuals recommended as reading material by the New York State Education Department for purchase on-site.

Registration form

NYS-Specific Exam Review Workshop • March 6-7, 2015

Register ONLINE now at www.nysapls.org OR use complete this form today.

NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

WORK #: (____) _____ FAX #: (____) _____

HOME #: (____) _____ E-MAIL: _____

- ☐ Member (\$299), before March 1
- ☐ Member, previous attendee (\$249), before March 1
- ☐ Member (\$349), after March 1
- ☐ Non-Member (\$399), before March 1
- ☐ Non-Member, previous attendee (\$349), before March 1
- ☐ Non-Member (\$449), after March 1

Payment Method:

- ☐ Check or Money Order Enclosed (make payable to NYSAPLS)
- ☐ Please charge my ☐ VISA or ☐ MASTERCARD

Acct #: _____

Exp. Date: ____/____ Verification Code: _____

Signature: _____

Billing Address: _____

Name as it appears on card: _____

Return this form along with payment to:

NYSAPLS, 146 Washington Ave., Albany, NY 12210

Questions? Please call, (518) 432-4046, fax (518) 432-4055

Or email, contactnysapls@nysapls.net

Course fees include workshop handouts and refreshment breaks. Lunch will not be provided, as ample restaurant options are available in the immediate area. Registrations will be processed in the order upon which they are received. Payment must be made in full upon registration. Purchase orders are not accepted. No refund will be given without written notification, and subject to policy terms. Registration cancelled 10-29 days prior to the course date will receive a 50% refund. No refunds will be granted within 10 days of the course or for cancellations due to weather. Schedules and presenters are subject to change without notice. In accordance with Title III of the Americans with Disabilities Act, we invite all registrants to advise us of any disability and any requests for accommodations to that disability.



About the presenter:

Dr. Joseph V.R. Paiva, is principal and CEO at GeoLearn, LLC (www.geo-learn.com) which is an online provider of professional and technical education since February 2014. He previously served as a consultant in the field of geomatics and general business, particularly to international developers, manufacturers and distributors of instrumentation and other geomatics tools. In that role Joe functioned as COO at Gatewing NV, a Belgian manufacturer of unmanned aerial systems (UAS) for surveying and mapping during 2010-2011. He also is a writer in many magazines and journals and has been on the "seminar circuit," delivering continuing education to geospatial professionals, as well as technician and exam preparation courses. Joe was previously managing director of Spatial Data Research, Inc., a GIS data collection, compilation and software development company; senior scientist and technical advisor for Land Survey research & development, VP of the Land Survey group, and director of business development for the Engineering and Construction Division of Trimble; vice president and a founder of Sokkia Technology, Inc., guiding development of GPS- and software-based products for surveying, mapping, measurement and positioning. Other positions include senior technical management positions in The Lietz Co. and Sokkia Co. Ltd., assistant professor of civil engineering at the University of Missouri-Columbia, and partner in a surveying/civil engineering consulting firm. He has continued his interest in teaching by serving as an adjunct instructor of online credit and non-credit courses at the Missouri University of Science and Technology. His key contributions in the development field are: design of software flow for the SDR2, SDR20 series and SDR33 Electronic Field Books and software interface for the Trimble TTS500 total station. He is a Registered Professional Engineer and Professional Land Surveyor, is an ACSM representative to the Accrediting Board for Engineering and Technology (ABET), serving as a program evaluator, where he previously served as team chair, and commissioner, and has more than 30 years experience working in civil engineering, surveying and mapping. He writes for POB and The Empire State Surveyor magazines and has been a past contributor of columns to Civil Engineering News.

Dr. Paiva can be reached at joepaiva@geo-learn.com or on Skype at [joseph_paiva](https://www.skype.com/en/contacts/joseph_paiva).



**Register early –
this session WILL
sell out quickly**

NYSAPLS Spring Workshops

New York's Boundary Law: The Doctrine of Practical Location and Related Doctrines

May 4-8, 2015

Presented by Laura E. Ayers, Esq.

Approved for 8.0 NY CE hours for LS/PE

Join local expert, attorney Laura Ayers, in an in-depth review of the various legal doctrines applicable in New York to quiet title in boundary line disputes. This seminar will explore the requisite legal and factual elements necessary to prove the “true” location of the boundary line under each legal doctrine by analysis of modern and ancient case law. Topics to be addressed include: the Doctrine of Practical Location (a.k.a. Boundary by Acquiescence), Estoppel, Boundary by Agreement, Adverse Possession and Encroachments. This workshop seminar will also discuss the surveyor's role in resolving a boundary line dispute.

By the end of this session participants will:

1. Know the Order of Precedence for calls to property boundaries and their significance to the resolution of a boundary line dispute
2. Recognize the features in the field and from the record that may require a judicial resolution of a boundary line dispute
3. Understand the duty of the Land Surveyor with respect to with issues of fact and issues of law surrounding a boundary line dispute

Workshop Schedule*

7:30am - 8:00am	Registration/Sign-in
8:00am - 12:15pm	Workshop Begins
12:15pm - 1:00pm	Lunch Break (on your own)
1:00pm - 5:15pm	Workshop Resumes
5:15pm	Sign-out/Workshop Concludes

**Schedule and break times are subject to change.*

Locations:

May 4th – Genesee County
Clarion Hotel Batavia
8250 Park Rd., Batavia, NY 14020

May 6th – Saratoga County
Hyatt Place Malta
20 State Farm Place
Malta, NY 12020

May 7th – Dutchess County
Ramada Conference Center
542 Route 9
Fishkill, NY 12524

May 8th – Long Island
Ramada Plaza
1730 North Ocean Avenue
Holtsville, NY 11742

Register online today at
www.nysapls.org or complete the
form on the next page and submit
with payment by mail.

Registration form

Register ONLINE now at www.nysapls.org OR use complete this form today.

Name: _____

Address: _____

City: _____ State: _____ Zip: _____
(this is my "home/" work address)

Work #: (____) _____ Fax #: (____) _____

Home #: (____) _____ E-Mail: _____

NYS LS license number _____

Choose your rate:

- ☐ Member Discount \$215
- ☐ Member, pricing after April 10: \$265
- ☐ Non-member registration: \$310
- ☐ Non-member pricing after April 10: \$360

Choose a date and location:

- ☐ May 4th – Genesee County
- ☐ May 6th – Saratoga County
- ☐ May 7th – Dutchess County
- ☐ May 8th – Long Island

Payment Options:

- ☐ Check or Money Order Enclosed (make payable to NYSAPLS)
- ☐ Credit card __MC __Visa __Amex __Discove

Credit card number: _____

Exp. date: ____/____ Security code: _____

Signature: _____

Billing Address: _____

Mail this form to: NYSAPLS, 146 Washington Avenue, Albany, NY 12210

Questions?

Please call, (518) 432-4046

Fax (518) 432-4055

Or email, contactnysapls@nysapls.net

NYSAPLS Cancellation Policy:

Payment must be made in full upon registration. Purchase orders not accepted. Registrations cancelled 30 days or earlier will receive a full refund less a 10% processing fee. Cancellations 10-29 days prior will receive a 50% refund. Cancellations 0-9 days prior to the event or due to inclement weather will not receive a refund. Receipts will be provided at time of registration if requested. Schedules, presenters and programs subject to change without notice.

In accordance with Title III of the Americans with Disabilities Act, we invite all registrants to advise us of any disability and any requests for accommodations to that disability. If you have any questions, please call the NYSAPLS office at 518-432-4046.



About the presenter: Laura E. Ayers, Esq.

In 2010, Laura E. Ayers, Esq. founded her own law firm which emphasizes on real property matters and disputes including access and high-way disputes, boundary line disputes, riparian, littoral, timber and mineral rights, as well as land use and zoning matters such as leases, easements, mechanic's liens, subdivisions and variances and transactional matters such as real estate closings, contracts and mortgages. Laura has over ten years of experience working on complex real property disputes and litigation. Laura is a frequent lecturer on such topics as the Highway Law, the Canal Law, Easement rights and Marcellus Shale.

Laura received her Bachelors of Science in Biochemistry and Biophysics in 1997 from Rensselaer Polytechnic Institute and her Juris Doctor in 2003 from Albany Law School of Union University. Laura is admitted to the New York State Bar and the United States District Court for the Northern District of New York.

Laura is an active member of the New York State Bar Association - Environmental Law section and Real Property section. Laura is also a member of the Schoharie County Chamber of Commerce and the Schoharie County Bar Association.

Edward "Ralph" O'Keefe

1935 – 2014



On November 16, 2014, born March 19, 1935 in Toronto, Canada. Predeceased by his parents Edward and Gertrude O'Keefe and sister Shirley Clark. Survived by his wife of 56 years Wendy Diane; sister Beverly Rivard; brother Dennis O'Keefe; sister-in-law Mary (Raymond) Byrne and many wonderful nephews and nieces in New York and Canada.

Ralph was a certified photogrammetrist and spent his entire business in the aerial survey field, the last 12 years as a principal of Lockwood Mapping LLC until his retirement in 1997. Not only have we lost a loving husband, brother and uncle but also a great teller of stories for which he will truly be missed. Ralph was an honorary member of NYSAPLS and GVLSA.

Memorial Service was held Sunday Dec 7 at Gates Presbyterian Church. In lieu of flowers, please send donations to Hildebrandt Lifetime Care Hospice, 3111 Winton Rd S, Rochester, NY 14623 or Gates Presbyterian Church, 1049 Wegman Rd, Rochester, NY 14624. - See more at: www.legacy.com.

Ludwig Riemenschneider

1926 – 2014

Ludwig, 88 of Seaford, born 1/11/26 passed away peacefully on 11/23/14. Beloved husband of Emily for 65 years, brother to Amy Riemenschneider, loving father of Ed (Mary), Neal (Ruth), Karl., Penny White (Ken) Cherished grandfather of Glenn, John, Shea, Gina, Jessica, Danny, Michelle, Carolyn and Christine along with having 5 great-grandchildren. Ludwig, a Life Member of NYSAPLS, was a licensed land surveyor for Nassau County for 35 years and served in the US Army during WWII. Involved in the Boy Scouts of America for over 50 years; serving in a variety of capacities. Founding member of the LI Traction Society and was an avid trolley enthusiast. In lieu of flowers, contributions may be made to Theodore Roosevelt Council, BSA, 544 Broadway, Massapequa, NY 11758 - See more at: www.legacy.com.

Norman Briggs

1916 – 2014



Norman Delmont Briggs, 98, woodsman, gardener, philatelist, storyteller, bridge builder, penny pincher, and eater of pies, died on Monday, Dec. 8, 2014.

Those who will forever miss his cleverness, wit, good humor, intelligence, and yes, even his obstinacy and penny-pinching ways, include his wife of 54 years, Luella (nee McComber); his children, Kim (Greg) Thomas, Linda (Kurt) Nichol, Susan (Von) Lohr, and Laurie Briggs; his niece, Valerie Michelsen; and his grandchildren, Sydney, Ashton, Samuel, Christian, Abigail, Madison and Nathan.

He was predeceased by his beloved mother, Lilla (nee Bunker); father, James; sister, Barbara Briggs Hagerman; and nephew, Paul Hagerman.

A memorial service was held Tuesday, Dec. 16, at Independent Baptist Church in Keeseville, N.Y. In lieu of flowers, the family requests that donations be made to High Peaks Hospice. The Thwaites-Zaumetzer Funeral Home was in care of arrangements. See full obituary at www.pressrepublican.com/obituaries.

Call to order and roll call

The meeting was called to order at 7:14 pm by President Malinowski with the following members present:

Association Officers:

President	Joseph Malinowski
Executive Vice President	Gary Thompson
Vice President	Gregory de Bruin
Treasurer	Daniel Marvin
Secretary	Kenneth M. Slausenhaupt
Executive Director:	Steve Boddecker

Directors:

Allegheny Plateau	(none present)
Black River	Robert Snyder
Catskill	(none present)
Central	Stephen Sehnert (Proxy)
City	Malcolm Shaw (Proxy)
Delaware-Hudson	Stephen Dolson (Proxy)
Eastern	Randel Paquin
Genesee Valley	Robert Hatch (Proxy)
Long Island	(none present)
Mid-Hudson	Adolf Jonietz
Mohawk Valley	Duane Frymire
Nassau Suffolk	Matthew Crane
Niagara Frontier	Brian Skelman
Northern	Ralph C. Schissler, III
Southern Finger Lakes	Gary Thompson (Proxy)
Southern Tier	(none present)
Queensboro	Malcolm Shaw
Westchester Putnam	Stephen Miller, Kenneth Salzmann

Trustees: Malcolm Shaw, Glennon Watson, Steve Boddecker, Patricia Brooks

Member guests: Kate Jonietz, Christine Gayron, Gregory Koester, Tom Cerchiara, Ricky Brooks, Jeremy Thompson

Staff: Amber Anderson & Heather Firetog

I Teller's Committee

As a first order of business President Malinowski appointed the following members to function as a Teller's Committee to count the ballots for the annual election of officers: Rick Brooks, Adolf Jonietz and Steve Boddecker

II. Consent Calendar

The Agenda was approved as presented. A motion by Robert Hatch, and seconded by Ken Salzmann, was passed to accept the consent agenda. Items on the agenda included approval of the September 2014 minutes, Treasurer's Financial Report October 2014, Membership report and committee minutes, Conference Committee minutes, Education Committee minutes, and Legislative Committee minutes.

III. Treasurer's Report

Dan Marvin presented the Treasurer's Report. The report was accepted as presented.

IV. President's Report

President Malinowski welcomed everyone to the Strategic Planning event and thanked them for their efforts. Members present are very engaged.

The President asked the members about the Pennsylvania Association's statement on "Mapping and Positioning Services". After two months of consideration and discussion here, it was thought NYSAPLS need not adopt a similar statement at this time.

V. Executive Vice President's Report

Gary Thompson reported that he has started the plans for the Educational Summit for our upcoming conference.

VI. Association Operation's Report

- Amber stated the headquarters office was transitioning into Conference mode at this time.
- Amber reminded those present that it was only two weeks to the end of Early Bird registration benefits.
- There remain only two sponsorship opportunities left for the upcoming conference.
- There were 165 attendees at the Fall Workshop. The spring workshop will be in the first week of May 2015.
- Unpaid dues reports were circulated to all Regional representatives for review and action. As of this date there are 168 members who have not yet renewed.
- Year End Taxes are being filed.
- The current issue of Empire State Surveyor is on line at this time. Hardcopies to be mailed soon.

VII. Committee and Industry Liaison reports

- **NSPS** – Patti Brooks reported. She began by emphasizing the role Malcolm Shaw has played over twenty years at NSPS and expressed gratitude for his consistent efforts and fine work. There are many issues being discussed at the national level. The meeting was in Kansas City the third week of October.
 - Patti reported the Christine Gayron has agreed to be the NYSAPLS Chair of the NSPS Young Surveyor's Program. This program is modeled after the International Federation of Surveyors program. There exists a tool kit on the NSPS website for this effort.
 - NSPS is offering a Student Competition overseen by Rich Vanzo from University of New Hampshire. Patty will encourage our schools to contact Rich to participate. NYSAPLS should encourage our schools to participate.
 - They are working on a Benefit and Perks program for its members.
 - NSPS adopted a Strategic Plan in October 2013, revised October 22, 2014. The By-laws are now being amended to come into line with required changes.
 - NYSAPLS is encouraged to be active in National Surveyor's Week, headed by Frank Lenik. He has asked for a named participant from each state. There is also a tool kit on the NSPS website to facilitate that effort.
 - NSPS has asked if NYSAPLS would be interested in a State President's Symposium at the Annual NSPS meeting.

- The Trigstar program is encouraged as a student directed educational opportunity. In addition to math, focus should also be directed to history, geology and other elements.
- Several motions were approved;
 - Creation of a Public Relations Annual Award
 - Create a clear national vision for educational programs. The official position of NSPS is a BS in Surveying, or similar program be required in every jurisdiction. Patty feels here in NY we should strive for this top goal.
- Patti deferred to Malcolm for additional comments. He added that Patti is doing a great job, she is well respected and involved at NSPS. There exists a financial struggle relating to the annual dues for The International Federation of Surveyors, normally \$32,000 per year, this year \$16,000.
- Jeremy Thompson asked since we are focused on encouraging membership in the profession, doesn't requiring a BS hurt the effort. Should we ask SBELS for input. Malcolm answered we have been working with SBELS on this for fifteen years with no reasonable response. It continues to be discussed back and forth.
- Education – Bob Hatch reported. The 2015 Conference Education program is all set. There will be a committee conference call next week to review final details. The Surveyor's Historical Association Fall program for Lake George is moving ahead on schedule. That extra program may affect the 2017 conference program.
- Legislative – Daren Morgan was not present, President Malinowski reported. At today's meeting NYSAPLS response to SBELS was discussed. A committee conference call will be scheduled when we hear back from SBELS. The year-end Legislative report was sent from Daren. It was decided NYSAPLS representation by members was crucial for all future SBELS meetings. They need to see our faces. Members are encouraged to track SBELS meeting dates and locations and attend when they are nearby. Under the topic of fracking, the well location criteria need to be re-visited.
- Membership– written report in Consent Agenda
- Conference – Amber Anderson reported their last meeting was in October. Through committee telephone calls many sponsorships were completed. The committee will meet again at the conference site (Turning Stone) November 24th, together with representatives of the Central Region, who are sponsoring and supporting this conference. This year they are looking to eliminate class "tickets", we are looking forward to see how that works out. During the conference there will be a "Selfie" contest.
- Nominating – Glenn Watson present but no report.

VIII. Unfinished Business

None

IX. New Business

- Report of Teller's Committee – Steve Boddecker reported eleven regions voted unanimously for the nominated slate of officers for 2015, they are:
 - President - Joseph Malinowski
 - Executive Vice-President - Gary Thompson
 - Vice-President – Gregory de Bruin
 - Treasurer - Daniel Marvin
 - Secretary - Ken Slaughenhoupt
- Matt Crane brought up an issue with the Town of North Hampton on Long Island. Under their Commissioner's Memorandum 2009#1, they accept Affidavits of No Change for real property transfers. Matt wants that referred to Counsel for review and communication. President Malinowski referred it to the Legislative Committee for review and recommendation.
- Rob Snyder reported he had received a request from Michael Webb, Instructor at the Ranger School for some help sending students to Conference. They have eleven students coming in January. The Ranger School has recently cut the budget for this trip and they are facing costs of about \$980 for four rooms. Black River Valley offered \$250 as a contribution. A discussion was held about in the future giving conference registrants an opportunity to donate for student support on the registration form. No further action was taken. President Malinowski thought it was important for NYSAPLS to communicate directly with the Ranger School to emphasize the importance and usefulness of this trip and encourage re-instituting the proper budget. Joe is going to write a letter. Other regions are encouraged to step forward for this year. The Auxiliary has already contributed by purchasing lunch tickets for the attending students. The Board thanks them for that support.
- Brian Skalman from Niagara Frontier asked for clarification on the expiration date for CEUs. The certificates indicate they are valid for three years however, none can carry over on the date of triennial re-registration. This means if you have the required 24, plus extra on that date the extra ones expire automatically. It is required to earn 24 credits within the three year period.
- Glenn Watson asked for nominations for the awards to be offered at Conference. He is also asking for volunteers to the Awards and Nominating committee membership for next year. Contact Glenn or President Malinowski.

With nothing further to discuss, and upon motion of Randall Paquin, seconded by Ken Salzmann, the meeting was adjourned at 9:24 pm.

Respectfully submitted: Kenneth M. Slaughenhoupt, LS, Secretary.

AFFINITY PARTNERS



Thank you to our **AFFINITY PARTNERS** who have made NYSAPLS exclusive Member Advantage Program possible...



USI Affinity
One International Plaza, Suite 400
Philadelphia, PA 19113
www.usiaffinity.com/nysapls

1-888-834-3713
NewYork.Sales@usiaffinity.com



Ovation Payroll
200 Canal View Blvd. Suite 200
Rochester, NY. 14623
[www. Ovationpayroll.com](http://www.Ovationpayroll.com)

Steve Ruffino
866-341-4562
sruffino@ovationpayroll.com



Retail Council of New York State
258 State Street
Albany, NY 12210
www.retailcouncilnys.com/nysapls

Nicholl Bautochka
1-800-442-3589
nysapls@retailcouncilnys.com

Support Your Sustaining Members!

The firms listed support the New York State Association of Professional Land Surveyors by their interest and concern through Sustaining Membership in the NYSAPLS. Regular members should show support in turn by patronizing these member firms for their needs!

Admar Supply Company, Inc.
1950 Brighton Henrietta
Town Line Road
Rochester, NY 14623
(716) 864-9156
www.admarsupply.com

Axis Geospatial
101 Bay St.
Easton, MD 21601
(410) 822-1441
www.axisgeospatial.com

Berntsen International, Inc.
PO Box 8670
Madison, WI 53708
(800) 356-7388
www.berntsen.com

Carlson Software
357 Baldwin Road
Fulton, NY 13069
(585) 216-9106
www.carlsonsw.com

CivilTraining, LLC
a division of Wetland Studies
and Solutions, Inc.
5300 Wellington Branch Drive
Suite 100
Gainesville, VA 20155
(732) 869-0592
www.civiltraining.com

Eastern Topographics
P.O. Box 970
495 Center Street
Wolfeboro, NH 03894-0970
(603) 569-2400
www.e-topo.com

GEOD Aerial Mapping Corporation
18-24 Kanouse Road
Newfoundland, NJ 07435
(973) 697-2122
www.geodcorp.com

Geomaps International
395 Central Avenue
Bethpage, NY 11714
(516) 827-9100
www.geomapsintl.com

Golden Aerial Surveys, Inc.
141 Mt. Pleasant Road
PO Box 747
Newtown, CT 06470
(203) 426-3322
www.goldenaerialsurveys.com

Insure Care Brokers, Inc.
9 Greenhaven Way
Centerport, NY 11721
(877) 268-3757
www.insurecarebrokers.com

Keystone Precision Instruments
1670 East Race Street
Allentown, PA 18109
800-833-9250
www.keypre.com

LaFave, White & McGivern, PC
PO Box 679
Theresa, NY 13691
(800) 427-9036
www.lwmlspc.com

Landmax Data Systems, Inc.
5919 East Henrietta Road
Rush, NY 14543
(585) 533-9210
www.landmaxdata.com

Maine Technical Source
2634 James Street
Syracuse, NY 13206
(888) 475-2479
www.mainetechnicalsource.com

Ovation Payroll
200 Canal View Boulevard
Suite 200
Rochester, NY 14623
(585) 341-3520
www.ovationpayroll.com

Robinson Aerial Surveys, Inc.
1 Edgeview Drive
Hackettstown, NJ 07840
(908) 813-3900
www.robinsonaerial.com

Subsurface Utility Imaging
9478 River Road
Marcy, NY 13403
(315) 797-5194
www.subsurfaceui.com

Superior Equipment & Supplies
1403 Meriden-Waterbury Rd.
PO Box 57
Milldale, CT 06467
(860) 276-8796
www.superiorinstrument.com

Terrametrix, LLC
4852 S 133rd Street
Suite 105
Omaha, NE 68137
(402) 618-3165
www.terrametrix3d.com

Tiger Supplies
21 Selvage St.
Irvington, NJ 07111
(888) 844-3765
www.tigersupplies.com

Trimble Navigation, Ltd.
10368 Westmoor Dr.
Westminster, CO 80021
(303) 635-8419
www.trimble.com

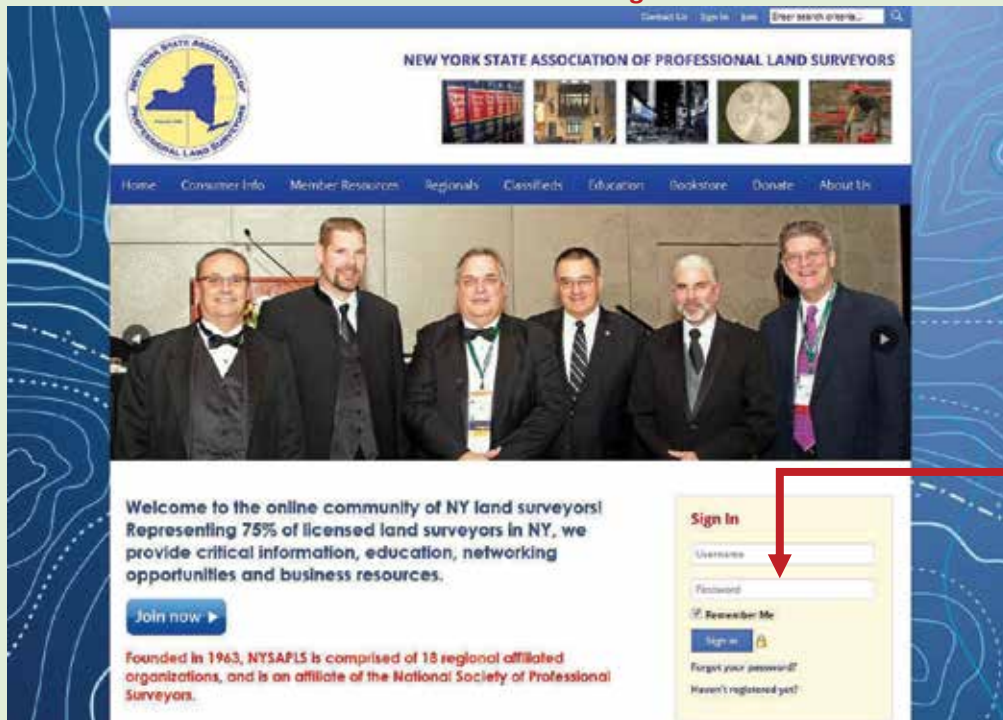
USI Affinity
One International Plaza
Suite 400
Philadelphia, PA 19113
(888) 834-3713
www.usiaffinity.com/nysapls

Waypoint Technology Group
17 Computer Drive East
Albany, NY 12205
(518) 438-6293
www.waypointtech.com

As of December 12, 2014, this list represents current corporate members.

Visit the NEW NYSAPLS website, www.nysapls.org

Follow our cheat sheet below to view how to log in and use our website to access your “members-only” features...



Sign-in on our homepage by typing in your user name and password.

If you do not know your password or wish to reset it, use the “Forgot your password?” link below the sign-in button to reset your password. You will not be able to access the member’s only features without a password.

Please note: All members must reset their password while logging on to the new website for the first time. For security purposes, all old passwords were deleted from the system.



To view your profile and view the members only features, click on “**Manage Profile**”. Here you will find a variety of options.

Search for a member in our member directory. Be sure to add other members as “connections” so you can correspond with them directly through our website.

In the “**Information and settings**” section, you can set your preferences or edit your profile.

Under the “**Content and Features**” section, you can view your favorite pages, create a blog, post pictures, view your professional development (CE hours), upload files and more.

In the “**Community**” section, you can send and receive messages to other members, subscribe to forums and blogs and view group (regional) activities.

In the “**Networking & Careers**” section, you can post your resume and view career postings.



Empire State Surveyor
Land Surveyors Building
146 Washington Avenue
Albany, NY 12210-2203

PRSRT STD
U.S. POSTAGE
PAID
Albany, NY
Permit #370

Address Service Requested

**KEYSTONE
PRECISION
INSTRUMENTS**

25 years meeting the needs of the Survey Industry, Keystone Precision provides the very best in supplies, instrumentation, training and service. We're dedicated to meeting your needs in a professional and timely manner.

We staff each of our five offices with qualified sales and service experts to meet all your requirements.

Contact us today and we will see that your needs are met!
Call us at **800-331-8451** or visit us at www.keypre.com
and ask for or download our 2015 catalog!

New York Office:
7020 Fly Road
East Syracuse, NY 13057
PH: 866-205-7488
FX: 315-414-0781

Offices also in:
Allentown, PA
Towanda, PA
Milford, MA
Crofton, MD

Spring14