



**RHODE ISLAND SOCIETY OF
PROFESSIONAL LAND SURVEYORS**



Presents

Annual Meeting and CONFERENCE

“Contemplating The Surveyor’s Paradigm Shift”

Friday - November 18, 2011

*****PROVIDENCE MARRIOTT DOWNTOWN*****

1 Orms Street · Providence, Rhode Island 02904 USA

<http://www.marriott.com/hotels/travel/pvdri-providence-marriott-downtown/>



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RISPLS
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7:30 – Registration Opens with Continental Breakfast

8:00 – 4:30 - Exhibits Open

8:00 – 11:30 - Seminar IA Carlton Brown UMAINE: “Definitive Boundary Corners Using State Plane Coordinates”

9:45 – 10:00 - Break

8:00 – 11:30 - Seminar IB Anthony Vannozzi UNH: “Perspectives on the Future of the Surveying Profession”

11:30 – 1:00 - Exhibits/Free Time

12:00 – 1:00 - Lunch – Plan Contest Voting / Scholarship Auction

1:00 – 4:30 - Seminar IIA Dan Martin NGS Vermont: “Modernization of the National Spatial Reference System (NSRS)”

1:00 – 2:30 - Seminar IIB Keystone Precision Instruments: “Real Time Monitoring with Robotic Total Stations and Data Management”

2:30 – 2:45 - Break

3:00 – 4:30 - Seminar IIC Maine Technical Source: "Live scanning and software demonstrations with Leica ScanStation C10 Laser Scanner"

4:30 – 5:00 - 50/50 Raffle and Door Prizes

5:00 – 7:00 - Cocktails, Scholarship Auction & Plan Awards

~ The society has reserved a limited number of discounted rooms for
Thursday November 17th through Sunday the 19th at a cost of \$129 / day ~



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Full Day Registration Seminars & Banquet (Access to All Sessions & includes lunch)

Members: \$200.00 _____ Non-Members: \$225.00 _____

Full Day Registration (No Banquet / Access to All Sessions & includes lunch)

Members: \$175.00 _____ Non-Members: \$200.00 _____

Half Day Registration (Morning Session or Afternoon Session Only)

Members: \$75.00 _____ Non-Members: \$100.00 _____

Lunch : \$25.00 _____

Banquet & Awards Ceremony: \$25.00 _____

Students with an ID can attend Seminars Free ! (RSVP) _____

Choose Seminars to Attend:

Seminar Tract IA _____ "Definitive Boundary Corners Using State Plane Coordinates" - Carlton Brown

Seminar Tract IB _____ "Perspectives on the Future of the Surveying Profession" -
A. Richard Vannozzi, MS, PLS

Seminar Tract IIA _____ National Geodetic Survey's 10 year plan for the modernization of the National
Spatial Reference System (NSRS) - Daniel J. Martin, New England Geodetic Advisor, NGS, NOAA

Seminar Tract IIB _____ "Real Time Monitoring with Robotic Total Stations and Data Management" -
Keystone Precision Instruments: Frederick Bulger

Seminar Tract IIC _____ "Live scanning and software demonstrations with Leica ScanStation C10 Laser
Scanner" Maine Technical Source: Anthony Paturzo

****Late Fee of \$10.00, if received after November 11, 2011.**

Name: _____

Address: _____

Phone: _____

***Make reservations early to eliminate late fee, reserve seating and to pick up your attendance certificate at the meeting.
Our current accommodations only allow seating for 110 members. All Reservations are non refundable and non-transferable.
Please make checks payable to RISPLS and mail with reservation certificate to:
RISPLS, 410 Tiogue Ave, Coventry, RI 02816



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Seminar IA

Definitive Boundary Corners Using State Plane Coordinates

Will surveyors be ready if and when the public demands that the definitive location of boundary corners be shown by state plane coordinates?

For over 60 years, when describing the location of any land boundary corner in the State of Rhode Island it is considered a complete, legal, and satisfactory description of such location to give the position of the land boundary corner on the Rhode Island system of plane coordinates. (RI Statute Chapter 34-8 Section 7b) Seven years ago the country of Singapore introduced the Singapore Co-ordinated Cadastre in which the location of all boundary corners in Singapore are defined by coordinate. The National Geodetic Survey will no longer use or maintain physical control monuments to define the National Spatial Reference System, and instead will use the virtual system of CORS (The National Geodetic Survey Ten-Year Plan). In a report released July 2010, the Inspector General of the U.S. Department of the Interior determined that the Bureau of Land Management (BLM) using the Public Land Survey System has “outdated and unreliable survey information” on 90% of the federal and Indian lands in the western continental United States, which resulted in the abandonment of the BLM National Integrated Land System (NILS). The public is becoming more spatially aware through the use of GPS navigation in automobiles, smart phones and Google Earth. Augmented Reality adds information to the camera field of view in smart phones to help users find the locations of nearby restaurants and the spatial location of other buildings and objects. Will the public eventually demand that boundary lines also be viewed on their smart phones using Augmented Reality?

This seminar will begin by discussing the growing awareness of the public that perhaps the definitive location of boundary corners should be shown by state plane coordinates. Some of the ramifications of using coordinates to define boundary corner locations will next be discussed. A possible coordinated cadastre will next be proposed based on the Massachusetts system of Land Registration. The seminar will end with some thoughts on the possible future use of Augmented Reality to show the location of boundary corners and other spatial objects.

Carlton Brown, PE, PLS

Carlton Brown is an Associate Professor in the Surveying Engineering Technology program at the University of Maine. He is a Professional Land Surveyor and a Professional Engineer licensed in Maine and Massachusetts and a member of the Maine Society of Land Surveyors, the Massachusetts Association of Land Surveyors and Civil Engineers, the New England Section of ACSM and the National Society of Professional Surveyors.



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Seminar IB

Perspectives on the Future of the Surveying Profession

Beginning with an examination of the role of the surveyor in society, this presentation will explore the most significant paradigm shift in the history of the surveying profession. Specifically: GPS and GIS technology are combining to fulfill the destiny of the profession on the one hand while rendering those reluctant to change obsolete on the other. Through a detailed examination of recent practice trends and the impact of emerging technologies, new pathways for practitioners to remain relevant and leverage technology in order to prosper will be presented. Specific trends in the areas of Data Accumulation, Construction Layout, Land Title and Cadastral (Boundary) Surveys will be discussed.

To emphasize the positive impact that GIS technology can have in small to mid-size land surveying practices, a Desktop GIS will be interactively demonstrated that can reduce time and effort on some site mapping projects to approximately five percent of traditionally relied upon methods. The presentation will conclude with a discussion of specific strategic changes which need to be implemented by individual practitioners, their businesses and the surveying profession as a whole in order to thrive in the coming years.

A. Richard Vannozi, MS, PLS

Mr. Vannozi is a graduate of the University of Maine where he earned a BS in Forestry w/ High Honors with concentrations in both Forest Management and Surveying in 1984 and an MS in Forestry (with a surveying emphasis) in 2006.

He is also a doctoral candidate in the Department of Natural Resources (NRE) at the University of Connecticut. His research is focused on GIS Applications and Education for Land Surveyors.

He is registered as a Professional Land Surveyor in Massachusetts.

From 2007-2009 he taught *Geomatics and Spatial Measurement* and *Introduction to Geomatics* at the University of Connecticut. From 2003-2007 he taught numerous land surveying courses at The Wentworth Institute of Technology in Boston. Before reorienting his career to focus on surveying education in 2003, Mr. Vannozi worked in private practice for 19 years specializing in ancient boundary retracement, boundary dispute resolution and title, boundary and zoning litigation.

He is currently an Assistant Professor in the Civil Technology program at the University of New Hampshire's Thompson School of Applied Science where he teaches various courses in Surveying and Mapping.

Currently he serves on the NSPS Board of Governors representing Massachusetts and on the Board of Directors for the New England Section of ACSM. He is also the Coordinator of the NSPS Student Competition.



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Seminar IIA

National Geodetic Survey's 10 Year Plan for the Modernization of the National Spatial Reference System (NSRS)

As part of the National Geodetic Survey's 10 year plan for the modernization of the National Spatial Reference System (NSRS), entirely new horizontal and vertical datums will be developed to replace the existing NAD 83 and NAVD 88. The changes in these datums will have a significant impact on the users of geodetic data nation wide. This presentation will describe the existing components of NSRS and the rational for the need to adopt new reference frames.

- **Daniel J. Martin**, New England Geodetic Advisor, NGS, NOAA

Daniel J. Martin
Vermont State Geodetic Advisor
National Geodetic Survey
National Oceanic and Atmospheric Administration
1 National Life Drive, Montpelier, VT 05633
Tel: (802) 828-2952
Fax: (802) 828-2334
E-mail dan.martin@noaa.gov

Dan Martin works for the National Geodetic Survey and is the Geodetic Advisor to the State of Vermont. He worked for the Route Survey and Geodetic Survey sections of the Vermont Agency of Transportation from 1988 through 2003, and held the position of Geodetic Program Supervisor for the Agency from 1999 through 2003. In 2003 Dan began his career with the National Geodetic Survey.

As the State Geodetic Advisor, he instructs local surveyors and state and municipal agencies on how to use and preserve the National Spatial Reference System, and provides liaison between the National Geodetic Survey and the State of Vermont.

Dan is a Past President of the American Association for Geodetic Surveying (AAGS), and is a Fellow Member of the American Congress on Surveying and Mapping and recently served as the ACSM Congress Chair. He is also a member of the Vermont Society of Land Surveyors

He has authored many articles on a range of geodetic topics for Professional Surveyor magazine, The American Surveyor, and the Surveying and Land Information Science Journal.



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Seminar IIB

“Real Time Monitoring with Robotic Total Stations and Data Management”

Ever since the I -35 bridge collapse in Minneapolis , Real Time monitoring has increased in demand. The development of systems that monitor movement now allow surveyors to examine data at the job site or from a remote location.

The data can then be utilized to make decisions on construction at the site.

This presentation will examine the four components of a monitor project as well as discuss data management. Live demonstrations will be a part of this presentation

Frederick Bulger, P.E.

Fred Bulger has over 25 years of industry experience. He started out as civil engineer for a company in Chicago, Illinois. During his nine years for that company, he worked in varying capacities from an AutoCAD drafter to engineer to project engineer. He worked on notable projects such as the United Center and Comisky Park. Fred then teamed up with Trimble Navigation. Over the past 17 years, Fred has been a product manager, trainer and a support person. Fred has worked with and trained Surveyors and Engineers on Trimble equipment all across the United States.

Seminar IIC

“Live scanning and software demonstrations with Leica ScanStation C10 Laser Scanner”

Learn about the latest project metrics using the Leica ScanStation C10 laser scanner. Learn about the latest practical office work processes for efficiently creating 2D & 3D deliverables from point clouds using **Cyclone 7.0, CloudWorx 4.2, TOPO**, and CAD. Learn why so many organizations are asking for Leica Geosystems HDS 3D laser scanning for their next projects. Live scanning and software demonstrations. **Learn how to take raw point clouds to CAD Step-by-step training**

- ◆ **Hands-on field data capture using the Leica ScanStation laser scanner**
- ◆ **Step-by-step training from raw point cloud to CAD deliverable**
- ◆ **Develop a DTM and contours for the site in Leica Cyclone software**
- ◆ **Demonstrate the use of raw point cloud data and line work in CAD using Leica Cyclone software**

Maine Technical Source: Anthony Paturzo

Anthony Paturzo has a strong survey background with over 15 years of experience. Over those years Anthony worked as a party chief on many large construction projects such as, the Big Dig and Gillette Stadium, home of the New England Patriots. Anthony also helped to build the laser scanning team in 2001 at Cullinan Engineering in Boston. Now at Leica, Anthony oversees sales and support in the Northeast for the HDS Division. He has been with Leica for over 6 years. Anthony has a bachelor's degree from Emerson College.

2011 RISPLS Plan Contest

Contest Rules

1. Must be a plan of Rhode Island land, dated between November 2010 and November 2011.
2. Entries must be un-mounted blue or black line prints.
3. Plans must be 1 sheet (no multiple sheets or sets).
4. Each entry must be accompanied by an entry form. (Forms will be available at convention)
5. No plans will be accepted after the submission deadline (10:00am November 18, 2011).
6. Awards will be presented Friday, November 18, 2011.
7. All decisions are final. Award-winning entries and the results will be displayed at the Convention.
8. All entries will become the property of RISPLS, Inc., and will be disposed of after award presentation.

Awards

Awards will be presented to the first place winners, and announced for the second and third place winners in each category.

First place.....	\$100.00
Second Place.....	\$ 50.00
Third Place.....	\$ 25.00

Judging

All entries will be checked for compliance with the Procedural and Technical Standards for the Practice of Land Surveying in the State of Rhode Island and Providence Plantations as adopted by the Board of Registration. No plan will be judged if it does not comply with said Standards.

The plan shall be judged and voted on the following:

- -Overall appearance, neatness, balance and consistency.
- -Lettering - clear and unmistakable.
- -Completeness (deed reference, plan references, areas, old property lines, monuments, etc.)
- -Qualifying notes or statements (clearly and unmistakably stated).
- -Signatures and seals.

Plan Categories

Plan Categories (Property Line, Subdivision, Site Plan) will be judged using either mechanical or freehand methods.

ENTRY FORM (PLEASE PRINT)

Title of Plan _____ Category _____
Name of Preparer _____ Company Name _____
Company Address _____ Company Telephone _____

*Please submit plan to:
RISPLS, C/O Don Medeiros
ABLE ENGINEERING, INC.
291 Long Highway
Little Compton, RI 02837
phone: (401) 592-1302
fax: (401) 592-1303
email: don@ablenewengland.com*

Plans must be received by November 17, 2011; otherwise you may submit them at the convention by 10:00 am. Remember to send this form!

Please send them in as early as possible, so I do not get overloaded at the convention.

Thank You!!!!!!

THE PIERRE H. GUILLEMETTE SCHOLARSHIP AWARD



THE RISPLS IS PLEASED TO OFFER A SCHOLARSHIP FOR THE 2011-2012 ACADEMIC YEAR TO A DESERVING STUDENT OF LAND SURVEYING.

THE PIERRE H. GUILLEMETTE SCHOLARSHIP IS AN ANNUAL AWARD WHICH IS AVAILABLE TO ANY RHODE ISLAND RESIDENT WHO IS ENROLLED IN A COURSE OF STUDY LEADING TO A CERTIFICATE PROGRAM OR DEGREE IN LAND SURVEYING OFFERED BY A QUALIFIED INSTITUTION OF HIGHER LEARNING.

APPLICANTS MUST SUBMIT A STATEMENT OUTLINING THEIR QUALIFICATIONS AND FUTURE CAREER GOALS, TOGETHER WITH THEIR EDUCATIONAL TRANSCRIPTS, A RESUME AND ANY OTHER PERTINENT INFORMATION THAT MAY ASSIST THE REVIEW COMMITTEE IN THE RECOGNITION OF THEIR ACHIEVEMENTS

DEPENDING ON THE MERITS OF THE VARIOUS APPLICANTS, THE SCHOLARSHIP COMMITTEE MAY RECOMMEND AWARD OF EITHER ALL OR A PORTION OF THE SCHOLARSHIP TO ONE OR MORE QUALIFIED INDIVIDUALS.

******PAYMENT OF YOUR AWARD WILL BE MADE DIRECTLY TO YOU IN ONE INSTALLMENT AFTER WE RECEIVE DOCUMENTATION THAT YOU HAVE ATTENDED A POST SECONDARY SCHOOL OR TECHNICAL PROGRAM. TO RECEIVE YOUR AWARDED FUNDS, SEND A COPY OF YOUR GRADES FOR THE PRIOR SEMESTER TO THE RISPLS OFFICE.*

THE APPLICANT MUST SUBMIT A NEW APPLICATION FOR EACH NEW ACADEMIC YEAR TO BE CONSIDERED FOR AWARD OF THE SCHOLARSHIP.

THE SCHOLARSHIP AWARD MARKS A CONTINUING COMMITMENT BY RISPLS TOWARD THE ADVANCEMENT OF SURVEYING EDUCATION.

THE PIERRE H. GUILLEMETTE SCHOLARSHIP AWARD

SCHOLARSHIP APPLICATION

NAME: _____ ADDRESS: _____

TELEPHONE: _____

EMPLOYER: _____

ADDRESS: _____

TELEPHONE: _____

EDUCATION:

HIGH SCHOOL: _____

COLLEGE: _____ OTHER: _____

SURVEYING

BACKGROUND: _____

ON A SEPARATE SHEET OF PAPER, PLEASE EXPLAIN WHAT HAS PROMPTED YOU TO PURSUE A LAND SURVEYING CAREER AND PROVIDE SUCH INFORMATION AS YOU FEEL SUPPORTS YOUR APPLICATION.

PLEASE MAIL TO: RISPLS, 410 Tiogue Ave, Coventry, RI 02816

****DEADLINE: NOVEMBER 2, 2011****

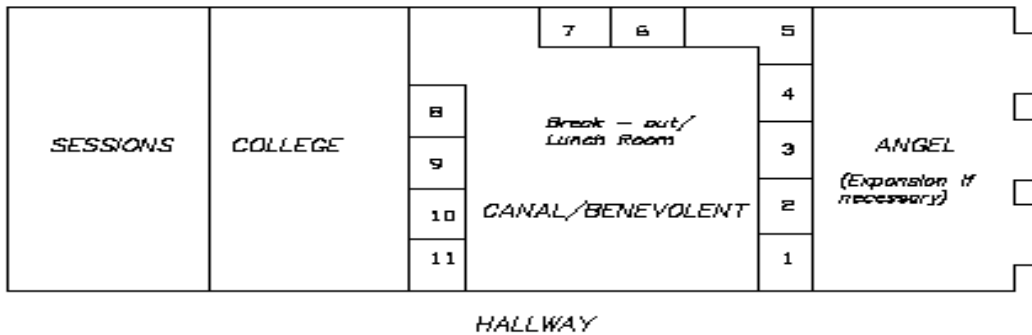


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Please be reminded, when you are considering the purchase of services and equipment, these companies are RISPLS Members and support the aims and objectives of the society.

PROFESSIONAL DIRECTORY

<p>WSP-SELLS 80+ Years of Mapping & Digital Orthos 90 Trolley Crossing Road Charlton, MA 01507 508/248/1970 www.wspells.com</p> <p>CEI COL-EAST, INC. Aerial Photography, Digital Mapping, Orthophotos PO Box 347, North Adams, MA 01247 800/FLY/TOPO www.col-east.com</p> <p>EASTERN TOPOGRAPHICS 495 Center Street, PO Box 970 Wolfeboro, NH 03894-0970 mail@e-topo.com TEL:603/569/2400 FAX:603/569/8200</p>	<p>INSURE CARE BROKERS 9 Greenhaven Way, Center Port, NY 11721 TEL:631/757/7515 FAX:631/757/7518 Finola@optonline.net</p> <p>KEYSTONE PRECISION INSTRUMENTS 455 Fortune Blvd. Milford, MA 01757 TEL:888/443/9840 FAX:508/478-4200 www.keypre.com</p> <p>AEROTECH 365 Smith Street, Providence, RI 02908 TEL:401/351/0600 FAX:401/351/6755 E-mail REF@aerotechcorp.com Web Page www.aerotechcorp.com</p>	<p>MAINE TECHNICAL SOURCE Surveying Instruments & Supplies 110 Winn Street, Woburn, MA 01801 800/322/1599</p> <p>MINUTEMAN MAPPING 7 Colby Court-Unit 4-209 Bedford, NH 03110 TEL:603/627/5010 FAX:603/623/5322 pviani@minutemanmapping.com</p> <p>VANASSE HANGEN & BRUSTLIN, INC. 10 Dorrance Street Suite 400 Providence, RI 02903 Transportation, Land, Environmental Services 401/272/8100</p>
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RISPLS, 410 Tiogue Ave, Coventry, RI 02816

Website: <http://www.rispls.org/>

Visit us on Facebook: <https://www.facebook.com/pages/Rhode-Island-Society-of-Professional-Land-Surveyors/183889041656349>