

# 71<sup>st</sup> Surveyors' Institute



**NSPS**



**University of Wisconsin  
Stevens Point**

**JANUARY 29, 30 AND 31, 2020**

**KALAHARI CONVENTION CENTER, WISCONSIN DELLS, WIS.**

**Wednesday, January 29**  
**10 a.m. – Noon**

### **1. Drones A-Z: How to Survey Accurately with Drones *Part 1***

Steve Zeets, CEO Whirrx, Marion, Iowa

**2.4 PDHs, Category 1 or 3**

Steve will share his background and experiences with the commercial use of drones in surveying and engineering applications. He will go over a variety of projects he has completed using drones and cover a wide range of topics on drones. The session will begin with the FAA regulations on how to legally operate drones commercially and end with how to successfully integrate drones at your company.

*Continued in Session 7*

### **2. What Land Surveyors Need to Know About Wisconsin's Condominium Statutes**

Renee Powers, Professional Land Surveyor, Supervisor, Plat Review, Department of Administration, State of Wisconsin, Madison, Wis.

**2.4 PDHs, Category 1**

What parts of Ch. 703, Wis. Statutes should surveyors be aware of? How do these sections affect surveyors and how can they be used to assist a client who is considering a condominium development?

### **3. FEMA and Flood Zones: Issues / Answers for the Field Surveyor**

Karol L. Grove, Professional Land Surveyor and Certified Floodplain Manager, Hartland, Mich.

**2.4 PDHs, Category 3**

This class will address the specific details concerning which data is important when dealing with a flood zone issue. We will talk about the many variables, and more specifically the procedures, which are helpful in determining the true flood zone elevations at a specific location.

### **4. FDM Chapter 12 Updates and Additions**

Kevin Boyer, Survey and Platting Manager, EMCS, Inc., Wausau, Wis., and

Keif Callaway, Bureau Plat Coordinator, Wisconsin Department of Transportation, Madison, Wis.

**2.4 PDHs, Category 1 or 3**

With recent discussions and updates to Chapter 12 of the WisDOT Facilities Development Manual (FDM), attendees will be introduced to the new sections within Chapter 12. Additionally, attendees will be given the opportunity to dictate the balance of the presentation. Often, plat preparers have questions regarding certain areas of Chapter 12, decision-making process, mapping styles and procedures. Everyone is encouraged to submit questions by January 15 to [surveyinfo@emcsinc.com](mailto:surveyinfo@emcsinc.com). You will remain anonymous. Take advantage of this unique opportunity!

### **5. LiDAR Data for the Land Surveyor**

Zachary Nienow, GISP, Ayres Associates Project Manager-Geospatial Services, Madison, Wis., and Matt Vinopal, CP, CMS, GISP, Ayres Associates Senior Professional-Geospatial Services, Madison, Wis.

**2.4 PDHs, Category 3**

The presentation will examine practical methods for using airborne LiDAR data for surveying and mapping professionals. This includes background information on lidar technology, best practices for use, and expected accuracies. Examples used from around Wisconsin will be presented.

### **6. A Roadmap to Career Development**

Danielle Widmer, Recruiter, Ayres Associates, Eau Claire, Wis.

**2.4 PDHs, Category 3**

Are you the 'Captain of the Ship' when it comes to your career development? In the increasingly demanding world of survey, what does it take to remain inspired, get things done, and control your career path? Sharing in examples and tips, participants will leave this session armed with tools, food for thought, and hopefully, a renewed sense of why you love what you do.



Wednesday, January 29

1:30 – 3:10 p.m.

## 7. Drones A-Z: Drone Regulatory, Insurance, and Airspace Issues *Part 2*

Steve Zeets, CEO Whirrx, Marion, Iowa

**2.0 PDHs, Category 1 or 3**

Steve will share his background and experiences with the commercial use of drones in surveying and engineering applications. He will go over a variety of projects he has completed using drones and cover a wide range of topics on drones. The session will begin with the FAA regulations on how to legally operate drones commercially and end with how to successfully integrate drones at your company.

*Continued from Session 1*

## 8. The Waterfront: Dealing with the Highs, Lows, and Sometimes In-Between *Part 1*

Dave Wentland, Coastal Engineering Consultant, Docks & Marinas, Inc., De Pere, Wis.

**2.0 PDHs, Category 1 or 3**

What's there not to like about a waterfront? This special interface between land and water where you can move physically, or in your mind, from one to another. Possibilities galore. Highly valued and desired, but also complex. Because of this it is very important to understand how land and water interact. What should we know, where do we find such information, and what may the interaction be like 20, 50 or even 100 years from now?

*Continued in Session 14*

## 9. GNSS 101: An Overview and Update on These Systems

Joe Sass, Channel Development Manager, Spectra Geospatial, Moreno Valley, Calif.

**2.0 PDHs, Category 3**

GNSS, or Global Navigation Satellite signals are changing the way we live our lives. Where do they come from? Is more better? An interesting look backward and forward at the impact of these systems.

## 10. Are Ethics the Same for Professional Engineers and Professional Surveyors? Let Us Find Out!

Tim Tomlanovich, Civil Engineering Technology Instructor, P.E., Northeast Wisconsin Technical College, Green Bay, Wis.

**2.0 PDHs, Category 2**

This ethics presentation reviews code of ethics to be followed by both professional engineers and surveyors. We will discover the similarities between the two disciplines and determine if there are any differences.

## 11. Mapping Technology for Surveyors

Zachary Nienow, GISP, Ayres Associates Project Manager-Geospatial Services, Madison, Wis., and Matt Vinopal, CP, CMS, GISP, Ayres Associates Senior Professional-Geospatial Services, Madison, Wis.

**2.4 PDHs, Category 3**

This presentation will compare three approaches for surveying and mapping site specific projects. Data collected from UAS will be compared and contrasted to other aerial platforms. We will distinguish between LiDAR and photogrammetry and discuss the most appropriate approach to various project types. We will cover the topics of expected accuracies and best practices for generating and using elevation datasets and planimetrics.

## 12. Young Surveyors' Meeting

Jeanette Harley, PLS, Vice President, Wisconsin Young Surveyors' Network, Neillsville, Wis., and Alysen Tierney, PLS, President, Wisconsin Young Surveyors' Network, Sun Prairie, Wis.

**2.0 PDHs, Category 3**

Come hear what has been happening within the Young Surveyors' groups on the state, national, and global levels whether you are a young surveyor or just interested in supporting our upcoming professionals. We will present on the past year's events and future opportunities. Students and those new to the institute are encouraged to attend as we will take time to answer any questions or concerns you may have. Our annual meeting will also be part of this session.

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Land Looker and County Surveyor

**Wednesday, January 29**  
**3:30 – 4:30 p.m.**

### 13. Diggers Hotline Update

Chad Krueger, Public Relations Manager, Diggers Hotline, New Berlin, Wis.

**1.2 PDHs, Category 3**

A look at recent changes at Diggers Hotline.

### 14. The Waterfront: Dealing with the Highs, Lows, and Sometimes In-Between *Part 2*

Dave Wentland, Coastal Engineering Consultant, Docks & Marinas, Inc., De Pere, Wis.

**1.2 PDHs, Category 1 or 3**

What's there not to like about a waterfront? This special interface between land and water where you can move physically, or in your mind, from one to another. Possibilities galore. Highly valued and desired, but also complex. Because of this it is very important to understand how land and water interact. What should we know, where do we find such information, and what may the interaction be like 20, 50 or even 100 years from now?

*Continued from Session 8*

### 15. Upgrading Wisconsin's Geospatial Infrastructure

Richard Kleinmann, Professional Land Surveyor, Aerial Mapping Project Manager, Ayres Associates, Waukesha, Wis., and Howard Veregin, Wisconsin State Cartographer, University of Wisconsin-Madison, Madison, Wis.

**1.2 PDHs, Category 3**

## Are You a CST? HERE'S YOUR OPPORTUNITY

The WSLs/CST Committee is offering a special testing opportunity on Friday, January 31, 2020, starting at 8:30 a.m. Tests will be given for CST Levels 1, 2 and 3. **You must apply for the testing.** Application and detailed information on the program can be obtained by going to [www.nsps.us.com/resource/resmgr/cst/cst\\_application\\_2016\\_New\\_Fee.pdf](http://www.nsps.us.com/resource/resmgr/cst/cst_application_2016_New_Fee.pdf) Applications and fees must be returned to Frank Thousand by January 14, 2020, at: WSLs, 5113 Spaanem Ave., Madison, WI 53716.



This presentation reports on two initiatives to upgrade the state's geospatial infrastructure. The first is the creation of a statewide Public Land Survey System data layer using best-available county coordinate data, to help improve the quality of the statewide parcel map. The second initiative is the formation of the Wisconsin Spatial Reference System 2022 Task Force, to ensure the state is prepared for the introduction of a new National Geodetic Survey terrestrial reference frame in 2022. Come to this session to learn more about these efforts and how they impact you!

### 16. Wisconsin's Northwest State Boundary Along the St. Louis River: An Analysis of G.L.O. 1852 River Survey

Anthony Lueck, Land Surveyor, North Country Land Survey, Duluth, Minn.

**1.2 PDHs, Category 3**

In 1848 Wisconsin became a state. New settlers wanted to utilize timber, mineral, and fishing resources along the north shores of Lake Superior. In 1852 George R. Stuntz, U.S. Deputy Surveyor, was under contract to survey the Wisconsin State Line along the St. Louis River, from its mouth at Lake Superior to the Congressional Line at the first rapids north of the Village of Fond du lac. This presentation analyzes the 1852 G.L.O. field survey along the St. Louis River. The 1854 Treaty of La Pointe led to continuing Township Subdivisions which soon followed in the State of Wisconsin and the Territory of Minnesota.



## 17. Overview and Status of LiDAR in Wisconsin

Zachary Nienow, GISP, Ayres Associates Project Manager-Geospatial Services, Madison, Wis., and Matt Vinopal, CP, CMS, GISP, Ayres Associates Senior Professional-Geospatial Services, Madison, Wis.

**1.2 PDHs, Category 1 or 3**

The presentation will focus on current status of LiDAR data being produced by local government in Wisconsin. It will also include information on future LiDAR plans, trends, and new LiDAR technologies entering the market. Lastly, data availability and accessibility will be discussed.

## 18. Vendor Session

**TBD 3:30 - 4:30 p.m.**

TBD

**1.0 PDH, Category 3**

**Thursday, January 30**  
**8:20 – 10 a.m.**

## 19. The Problem with Easements

Jessica Shrestha, Attorney/Shareholder, Wheeler, Van Sickle and Anderson, S.C., Madison, Wis.

**2.0 PDHs, Category 1 or 3**

This session will explore the many issues that arise in evaluating easements, including interpretation, scope and the question of whether an easement exists. Shrestha will also discuss the current status of the law on easements and upcoming potential legislation.

## 20. Professional Ethics and the Land Surveyor

Anthony Gregory, PS, Professor Emeritus of Civil Engineering Technology, Purdue University Northwest, Highland, Ind.

**2.0 PDHs, Category 2**

Holding a license as a Professional Land Surveyor is truly a privilege and an honor. However, such a distinction also carries with it obligations. One such obligation is to practice professionally and ethically. This seminar will cover professionalism and ethics from a general viewpoint, and from that of a land surveyor. In addition to reviewing and discussing published standards relative to the practice of land surveying in Wisconsin, the seminar will include discussions of various situations involving professional ethics.

## 21. Basic FEMA Issues / Floodplains / Elevation Certificates *Part 1*

Karol L. Grove, PS, CFM, Professional Land Surveyor & Certified Floodplain Manager, Alpine Land Surveying, Inc., Hartland, Mich.

**2.0 PDHs, Category 1 or 3**

This session will cover the field procedures associated with properties and structures when located in or near FEMA Flood Zones. Additionally, we will tackle the Zone A Non-studied areas and the many ways available to establish a Base Flood Evaluation in those areas. Lastly, we will cover the specifics of the Elevation Certificate and when one is needed.

*Continued in Session 27*

## 22. Condominium 2020

David Chrouser, Professional Land Surveyor, Mau & Associates, Green Bay, Wis. and Terry Van Hout, Professional Land Surveyor, Real Property Lister, Brown County, Green Bay, Wis.

**2.0 PDHs, Category 1 or 3**

This presentation will touch on things to consider when preparing a condominium plat, show examples and discuss some unique issue that we have experienced through the years.

## 23. Vendor Sessions

**TBD 8:20 - 9:10 a.m.**

Whirrx

**1.0 PDH, Category 3**

**TBD 9:10 - 10 a.m.**

TBD

**1.0 PDH, Category 3**

## 24. Vendor Sessions

### Field to Finish Review and Version 2020 Q & A **10:20 - 11:10 a.m.**

Carlson

**1.0 PDH, Category 3**

### TBD **11:10 a.m. - Noon**

Leica Geosystems

**1.0 PDH, Category 3**

**Thursday, January 30**  
**10:20 a.m. – Noon**

## 25. The Right in Right-of-Way: An in depth Look at Public Road and Utility Rights-of-Way

Jessica Shrestha, Attorney/Shareholder, Wheeler,  
Van Sickle and Anderson, S.C., Madison, Wis.

**2.0 PDHs, Category 1 or 3**

This session will cover the unique laws applicable to public roads and utility rights-of-way. Topics will include unrecorded rights, abandonment, interpretation and statutory protections.

## 26. What is the Future of the Professional Surveyor? **Part 1**

Anthony Gregory, PS, Professor Emeritus of Civil  
Engineering Technology, Purdue University Northwest,  
Highland, Ind.

**2.0 PDHs, Category 3**

Many developments over the past few decades have caused significant change in the land surveying profession. These developments include major advancements in technology, increased requirements for professional licensure, and a decline in the availability of land surveying programs at colleges and universities. As a result, the workforce entering surveying at both the professional and technician level has been declining. Other professions appear to be encroaching into what has traditionally been perceived to be the territory of the land surveying profession.

It is time for the land surveying profession to begin defining how the profession will sustain over the next couple of decades. Hopefully, this will be embraced by the profession as opportunities for growth rather than just defending turf.

*Continued in Session 32*

## 27. Flood Zones...LOMAs, LOMRs, and LOMR-Fs **Part 2**

Karol L. Grove, PS, CFM, Professional Land Surveyor  
& Certified Floodplain Manager, Alpine Land  
Surveying, Inc., Hartland, Mich.

**2.0 PDHs, Category 1 or 3**

We will discuss in detail the many options available when properties are affected by FEMA Floodplains. We will cover several examples of what NOT to do, real life examples of mistakes made by others when dealing with flood zones.

*Continued from Session 21*

## 28. Coordinate Systems: Turning Global Coordinates into Northings and Eastings

Joe Sass, Channel Development Manager, Spectra  
Geospatial, Moreno Valley, Calif.

**2.0 PDHs, Category 3**

Wisconsin is among a handful of states utilizing “County Coordinate Systems” to manage the differences between grid and ground distances. How do other regions manage this? What will happen in 2020?

## 29. Vendor Sessions

**TBD 10:20 - 11:10 a.m.**

Vendor TBD

**1.0 PDHs, Category 3**

**TBD 11:10 a.m. - Noon**

Vendor TBD

**1.0 PDHs, Category 3**

## 30. Vendor Sessions

### Break Through with Trimble: Technology Trends in Visualization, GNSS, and Terrestrial Scanning **10:20 – 11:10 a.m.**

Seiler Instrument

**1.0 PDHs, Category 3**

**Trimble R12:** Trimble ProPoint GNSS technology that empowers land surveyors to quickly measure more points in more places than ever before.

**Trimble X7:** High-speed 3D laser scanning system with new innovations to simplify adoption, increase efficiency and provide confidence in the field. Auto leveling, fast scans and automatic field registration on the fly.

**Trimble Site Vision:** Visualize in 3D. See it in the field! Place and view georeferenced 3D models from any angle at true-to-life scale, or above or below the ground.

### Scanning Tools: Flying, Walking, Driving, and Tripod **11:10 a.m. - Noon**

Seiler Instrument

**1.0 PDHs, Category 3**

LiDAR is no longer a tool for early adopters. The hardware and software has become essential for high efficiency surveying. With so many different tools available, we'll cover the pros and cons of each.

**Thursday, January 30**  
**2 – 4 p.m.**

## 31. Arbitrator by Agreement

Steve Sorenson, Attorney/Shareholder, Von Briesen and Roper, S.C., Ripon, Wis.

**2.4 PDHs, Category 1 or 3**

Surveyors are often called upon to assist in settling boundary line and other related disputes, but they end up doing so without compensation. They also find themselves testifying in court before a judge who does not understand the role of the surveyor or the methodologies of surveying. Worse yet, there are occasions when surveyors are being sued based on an opinion they gave in an offhand conversation.

So why not turn the table and charge for the advice and counsel in the role of a neutral be it mediator or arbitrator. This program will examine how to do this in a legal, ethical and rewarding manner.

## 32. What is the Future of the Professional Surveyor? **Part 2**

Anthony Gregory, PS, Professor Emeritus of Civil Engineering Technology, Purdue University Northwest, Highland, Ind.

**2.4 PDHs, Category 3**

Many developments over the past few decades have caused significant change in the land surveying profession. These developments include major advancements in technology, increased requirements for professional licensure, and a decline in the availability of land surveying programs at colleges and universities. As a result, the workforce entering surveying at both the professional and technician level has been declining. Other professions appear to be encroaching into what has traditionally been perceived to be the territory of the land surveying profession.

It is time for the land surveying profession to begin defining how the profession will sustain over the next couple of decades. Hopefully, this will be embraced by the profession as opportunities for growth rather than just defending turf.

*Continued from Session 26*

## 33. Wisconsin Society of Land Surveyors Annual Meeting

**2.4 PDHs, Category 1 or 3**

## 34. Property Description Writing

Jim Wallen, Professional Land Surveyor, Green Bay, Wis.

**2.4 PDHs, Category 1 or 3**

The Do's and Don'ts plus things to consider when writing that perfect legal description. How is your work product seen and judged by Courthouse Land Records Personnel?

### 35. Practical Application of ALTA / NSPS Survey Standards

David Pemberton, Vice President of Surveying, Sathre-Bergquist, Inc., Wayzata, Minn., and Marcus Hampton, Vice President and Registered Land Surveyor, James R. Hill Inc., Burnsville, Minn.

**2.4 PDHs, Category 1 or 3**

A practical review of field/office observations for ALTA/NSPS Land Title Survey Standard focused to field and office technicians.

### 36. Vendor Sessions

#### BIM & the Modern Surveyor

**2:15 – 3:15 p.m.**

Seiler Instrument

**1.0 PDHs, Category 3**

Surveyors have opportunities to interface with BIM throughout all project stages: from initial survey, through construction, to final as-built. Geospatial data from ground and aerial sources along with new collaboration and information tools from Autodesk, they can deliver higher quality services by producing intelligent models.

### Spectra's SP20 Handheld GNSS Receiver

**3:15 – 4:15 p.m.**

Seiler Instrument and Trimble

**1.0 PDHs, Category 3**

Combine innovative, camera-enabled data collection workflow with a high level of performance in an ergonomic, scalable solution (from meter to cm accuracy).

**Friday, January 31**  
**8:20 – 10 a.m.**

### 37. Boundary Law Case Studies *Part 1*

Steven Sorenson, Attorney/Shareholder, Von Briesen and Roper, S.C., Ripon, Wis.

**2.0 PDHs, Category 1 or 3**

Spend some time with a series of practical discussion about recent boundary dispute cases in Wisconsin and around the country. This presentation will take actual fact situations and discuss the role of the survey and the surveyor in each of the cases. Simulations from the cases will allow with audience involvement. A discussion of how a simple change in the facts can change the court's decision. The presentation will also examine the effect of court decisions on surveying practices and boundary dispute resolution. This interactive presentation should provide an excellent opportunity to test one's knowledge of the practical aspects of boundary law.

*Continued in Session 44.*

### 38. Basic Issues and Items of the Public Land Survey System

Les Van Horn, Professional Land Surveyor, Van Horn & Van Horn, LLC, Green Bay, Wis., and

Lisa Van Horn, Professional Land Surveyor, Van Horn & Van Horn, LLC, Green Bay, Wis.

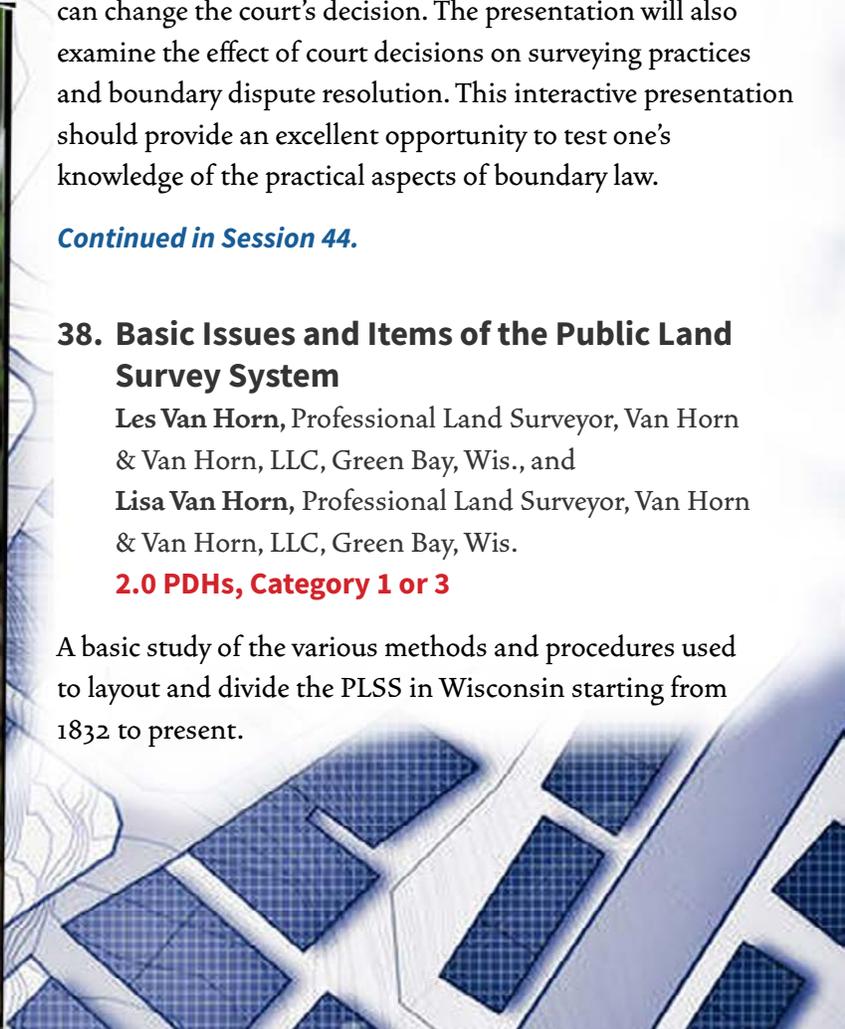
**2.0 PDHs, Category 1 or 3**

A basic study of the various methods and procedures used to layout and divide the PLSS in Wisconsin starting from 1832 to present.

THE  
SURVEYOR'S COMPANION

PLEASE  
PROTECT  
NEARBY  
SURVEY  
MARKER

IF LOCATION OF THIS MARKER  
IS ENHANCED  
PLEASE CONTACT  
COUNTY SURVEYORS OFFICE



### 39. Boundary Evidence and Technology *Part 1*

Anthony Gregory, PS, Professor Emeritus of Civil Engineering Technology, Purdue University Northwest, Highland, Ind.

**2.0 PDHs, Category 3**

Many developments over the past several decades have caused significant change in the land surveying profession. These developments include major advancements in technology. Our profession has embraced and incorporated these advancements into our practices. This is evident in both the common field work and office methodologies of the typical land surveyor.

In as much as staying current with technology is both commendable and necessary, the surveyor of the 21st century needs to not lose sight of the historic charge given to every professional land surveyor, that being to sift through boundary evidence in order to follow the footsteps of the original surveyor. The purpose of this seminar is to focus on how the land surveyor can be an expert in both the use of changing technologies and in interpreting boundary evidence.

*Continued in Session 46.*

### 40. Finding the Money

Mark Speirs, Consultant, Small Business Development, University of Wisconsin-Stevens Point, Stevens Point, Wis.

**2.0 PDHs, Category 3**

Know what financing and funding is available for your businesses. This program will provide an overview of the many capital sources for business including traditional commercial loans, government loan programs and grants, as well as many lesser-known specialized sources of funding.

### 41. Wisconsin County Surveyors Association (WCSA) Meeting

**2.0 PDHs, Category 1 or 3**

This session provides a unique learning opportunity on a wide variety of land surveying topics. While this session serves as the annual meeting membership for the Wisconsin County Surveyors Association, all WSLs members are invited to join in on the discussions and ask questions on the various topics. Representatives from the State Cartographers Office, National Geodetic Survey and the Wisconsin Department of Transportation will be in attendance to deliver reports and answer questions. The "Friend of Wisconsin Land Surveying Award" will be presented along with recognition of WCSA members accomplishments.

### 42. Understanding the Revision to A-E7

Tony Gromacki, Professional Land Surveyor, M Squared Engineering, LLC, Cedarburg, Wis.

**2.0 PDHs, Category 3**

This session will provide an overview of the changes to A-E7 and the reason behind those changes.

### 43. Principles and Practice of Land Surveying (PLS) Exam Prep *Part 1*

Howard Herrild, Professional Surveyor and Instructor, Northeast Wisconsin Technical College, Green Bay, Wis.

This session is for the person who is looking to take the Principles and Practices of Land Surveying exam. This land surveying refresher will focus on the public land survey system, study materials and exam format with a small focus on the licensing application process.

*Continued in Session 50.*

### **Additional PDHs for Surrounding States**

Many of our sessions could fulfill the PDH or CEU requirements in many other states. Our ethics session may pertain to all surveyors and could qualify for many states requirements. We also have a wide variety of topics that may qualify for your state.

**We welcome you to our Annual Institute!  
You will not be disappointed.**



**Friday, January 31**  
**10:20 a.m. – Noon**

#### **44. Boundary Law Case Studies *Part 2***

Steven Sorenson, Attorney/Shareholder, Von Briesen and Roper, S.C., Ripon, Wis.

**2.0 PDHs, Category 1 or 3**

Spend some time with a series of practical discussion about recent boundary dispute cases in Wisconsin and around the country. This presentation will take actual fact situations and discuss the role of the survey and the surveyor in each of the cases. Simulations from the cases will allow with audience involvement. A discussion of how a simple change in the facts can change the court's decision. The presentation will also examine the effect of court decisions on surveying practices and boundary dispute resolution. This interactive presentation should provide an excellent opportunity to test one's knowledge of the practical aspects of boundary law.

*Continued from Session 37.*

#### **45. Advanced Issues and Items of the Public Land Survey System**

Les Van Horn, Professional Land Surveyor, Van Horn & Van Horn, LLC, Green Bay, Wis., and  
Lisa Van Horn, Professional Land Surveyor, Van Horn & Van Horn, LLC, Green Bay, Wis.

**2.0 PDHs, Category 1 or 3**

Advanced look at how the various county re-monumentation programs reset these corners and issues related to “following in the footsteps.”

#### **46. Boundary Evidence and Technology *Part 2***

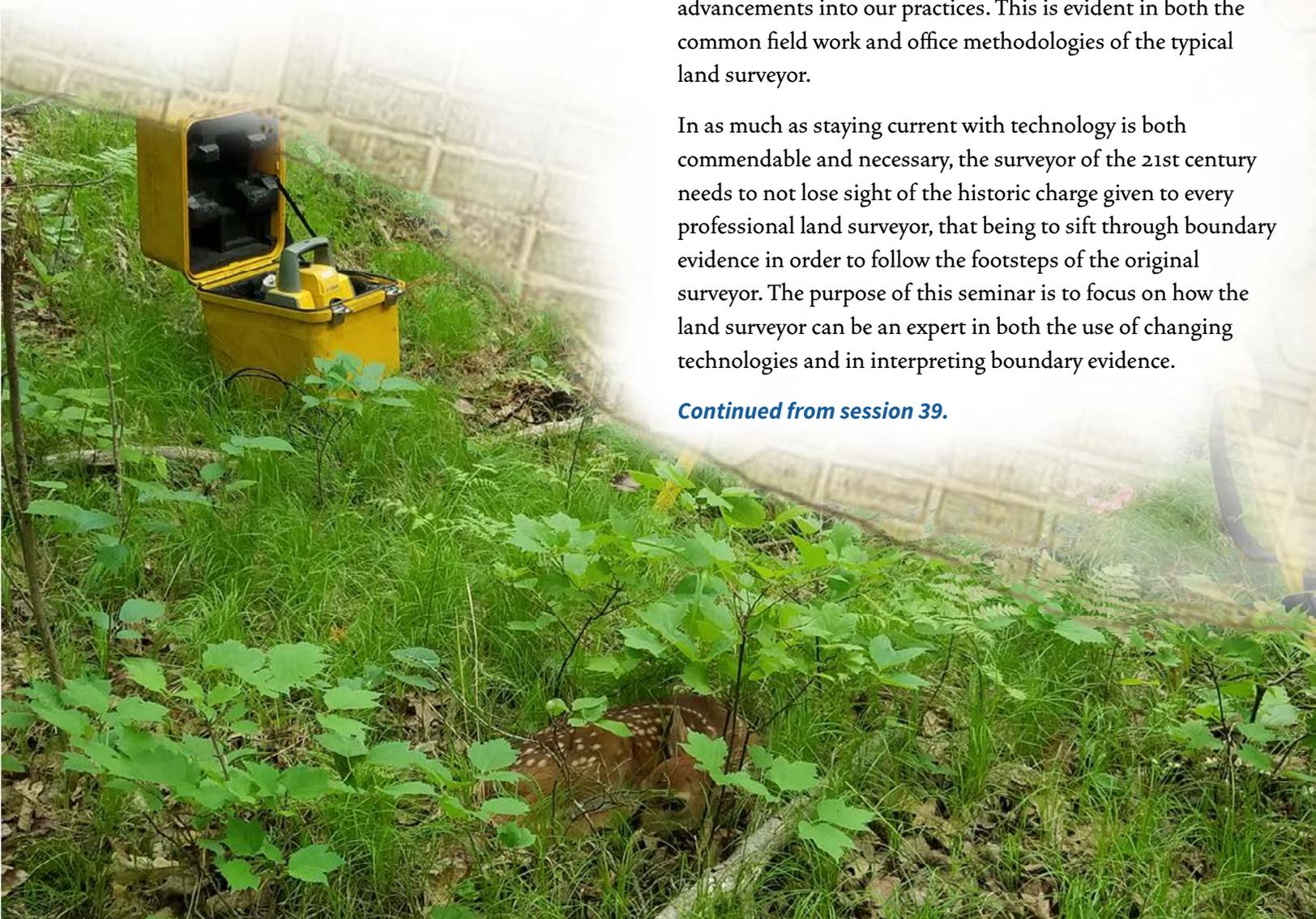
Anthony Gregory, PS, Professor Emeritus of Civil Engineering Technology, Purdue University Northwest, Highland, Ind.

**2.0 PDHs, Category 3**

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In as much as staying current with technology is both commendable and necessary, the surveyor of the 21st century needs to not lose sight of the historic charge given to every professional land surveyor, that being to sift through boundary evidence in order to follow the footsteps of the original surveyor. The purpose of this seminar is to focus on how the land surveyor can be an expert in both the use of changing technologies and in interpreting boundary evidence.

*Continued from session 39.*



## 47. Grow Your Business

Mark Speirs, Consultant, Small Business Development Center, University of Wisconsin-Stevens Point, Stevens Point, Wis.

**2.0 PDHs, Category 3**

With so many ways to reach out to potential customers, what truly is the most effective way to do so? Through networking, creating a marketing plan, and using digital and traditional marketing, learn how you can grow your customer base and increase sales.

## 48. Code of Ethics and Discrimination and Harassment Prevention Training

Robin Waier, SPHR, Human Resources Generalist, Smith, Brookfield, Wis.

**2.0 PDHs, Category 2**

This hour-long presentation discusses the basics of professional ethics, with examples specific to the Survey industry, in addition to the importance, both legally and morally, of preventing discrimination and harassment in the workplace.

## 49. National Association of County Surveyors (NACS) Meeting

**2.0 PDHs, Category 3**

The National Association of County Surveyors (NACS) provides a national voice for County Surveyors. This session serves as the annual membership meeting for the organization and will provide a unique look at surveying from a national perspective, especially as it applies to County Surveyors. NACS is an affiliate organization of the National Association of Counties (NACo) and works to foster the professional growth of members. Please join us for some meaningful discussion impacting surveyors nationwide. The State of Wisconsin and WSLS are truly fortunate to be hosting the NACS annual membership meeting in Wisconsin this year.

## 50. Principles and Practice of Land Surveying (PLS) Exam Prep *Part 2*

Howard Herrild, Professional Surveyor and Instructor, Northeast Wisconsin Technical College, Green Bay, Wis.

This session is for the person who is looking to take the Principles and Practices of Land Surveying exam. This land surveying refresher will focus on the public land survey system, study materials and exam format with a small focus on the licensing application process.

*Continued from Session 43.*



## Foundation Raffle & Auction 8 – 10 p.m.

### **RAFFLE ITEMS TO INCLUDE:**

Join us after the banquet for the Foundation Raffle and Auction. This entertaining event offers attendees a chance to bid on great items including survey instruments, vintage surveying magazine covers, pre-season Packer tickets and many others.

### **VIEW THE ITEMS IN THE FOUNDATION BOOTH!**

## Conference Information

**Registration:** The full Institute fee includes program materials, program souvenir, certificate of participation, refreshments, two luncheons, and the banquet. The registration fee is completely refundable through Wednesday, January 15, 2020. Cancellations made between January 16 and January 22, 2020 will be charged a \$25 administrative fee per participant. No refunds granted on or after Thursday, January 23, 2020. Substitutions may be made at any time, but no-shows will be responsible for the full registration fee. On-site registrants will not be guaranteed meals, conference materials and/or complimentary items. Please contact UWSP Continuing Education if you have not received confirmation of your registration at [uwspe@uwsp.edu](mailto:uwspe@uwsp.edu).

**Location and Lodging:** A block of rooms is reserved at the Kalahari Resort for conference participants. The rooms will be held until Tuesday, December 31, 2019. Availability is limited, so make your reservation early. To avoid long wait times, do not call the Kalahari, but rather make your reservation online at <https://book.passkey.com/event/49986260/owner/57143/home>. Two room types are available: Huts are \$99 per night up to quadruple occupancy; Lodges are \$119 for up to quadruple occupancy. For more information on the room types, please visit the Kalahari website at [www.kalahariresorts.com/wisconsin](http://www.kalahariresorts.com/wisconsin) and click "Accommodations" for room information.

## Special Event | Bucky's Challenge WSLS Foundation FUNdraiser ...

Get set for the 14th annual big event, Wednesday evening, January 30, 2020, in conjunction with the Annual Surveyors' Institute. Bucky's Challenge is a trivia contest covering such topics as surveying (of course!), math, sports, television, movies, history, geography and whatever else comes to mind. Join up to 24 teams of three to eight people, representing firms, vendors, local chapters, alumni from our technical colleges, county surveyors and other groups that can find a sponsor. To learn more about "Bucky's Challenge," contact contest chairman Dan Birrenkott at 608-837-7463, [dbirrenkott@birrenkottsurveying.com](mailto:dbirrenkott@birrenkottsurveying.com), or visit the Society's website at [WSLS.org](http://WSLS.org).

**State Rate Lodging Available:** A block of rooms has been reserved at the Wintergreen Resort and Conference Center for registrants employed by government agencies who are required to stay at state rate hotels. The rooms will be held until Friday, January 17, 2020. Room rates are \$82 per night for single occupancy. To receive this rate, you must provide the appropriate documentation for rate eligibility, including tax exempt documentation. Reservations can be made by calling Wintergreen at 608-254-2285; please reference the WSLS Institute room block.

### **Banquet space is limited.**

**TICKETS MAY NOT BE AVAILABLE ON SITE FOR PURCHASE. PLEASE INDICATE YOUR DESIRE FOR AN ADDITIONAL TICKET IN THE SPACE PROVIDED ON THE REGISTRATION FORM. APPROPRIATE BANQUET ATTIRE IS REQUESTED.**

**Schedule:** The starting times for daily programs:  
**Wednesday 10 a.m., Thursday and Friday 8:20 a.m.**  
Due to speaker illness or poor weather conditions, schedule may change without notification.

### **Exhibits:**

**Wednesday, 1 - 6:30 p.m. Thursday, 7 a.m. - 4 p.m.**  
**ABSOLUTELY NO ADMISSION PRIOR TO 1 p.m. ON WEDNESDAY, JANUARY 29.**

**Questions?** Call UW-Stevens Point Continuing Education at 715-346-3838 or [uwspe@uwsp.edu](mailto:uwspe@uwsp.edu)

# ANNUAL SURVEYORS' INSTITUTE REGISTRATION FORM — JANUARY 29 - 31, 2020

Early Bird Rate Ends January 3, 2020 (Only one person may register per form. Please photocopy for additional registrations.)

— PLEASE PRINT CLEARLY! —

Complete and send registration form and fee,  
payable to UW-Stevens Point to:

University of Wisconsin Stevens Point  
Continuing Education  
2100 Main St, 032 Main Bldg.  
Stevens Point, WI 54481-3897

Phone: 715-346-3838 Fax: 715-346-3504

Register online at  
[www.uwsp.edu/conted/pages/WLSL-Surveyors-Institute.aspx](http://www.uwsp.edu/conted/pages/WLSL-Surveyors-Institute.aspx)

Name \_\_\_\_\_  
First Middle Initial Last

Phone \_\_\_\_\_  
Work Mobile

PLS  YES  NO Which States \_\_\_\_\_

Are you a CST?  YES  NO Level \_\_\_\_\_

Professional Title \_\_\_\_\_

Company \_\_\_\_\_

Company Mailing Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Home Mailing Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Email Address \_\_\_\_\_

First time participant

Special needs accommodations \_\_\_\_\_

\* Must receive special accommodation request **AT LEAST TWO WEEKS PRIOR**  
to start of conference.

Do you have any special dietary restrictions or needs?  YES  NO

Please describe \_\_\_\_\_

**ON-SITE REGISTRANTS WILL NOT BE GUARANTEED MEALS,  
CONFERENCE MATERIALS AND/OR COMPLIMENTARY ITEMS.**

**BECOME A MEMBER! Take advantage of the  
lower Institute registration fee by joining  
WLSL. Contact: Frank Thousand,  
5113 Spaanem Avenue, Madison, Wis. 53716  
Phone: 608-770-9759 or Email [info@wsls.org](mailto:info@wsls.org)**

Please indicate which session by number you attend in each time slot.

## WEDNESDAY - JANUARY, 29, 2020

10 a.m.-Noon \_\_\_\_\_ 1:30-3:10 p.m. \_\_\_\_\_ 3:30-4:30 p.m. \_\_\_\_\_

## THURSDAY- JANUARY, 30, 2020

8:20-10 a.m. \_\_\_\_\_ 10:20 a.m.-Noon \_\_\_\_\_ 2-4 p.m. \_\_\_\_\_

## FRIDAY - JANUARY, 31, 2020

8:20-10 a.m. \_\_\_\_\_ 10:20 a.m.-Noon \_\_\_\_\_

**SINGLE DAY:** Non-Member WLSL or NACS Member  
(Doesn't include banquet ticket)

Wednesday  \$250  \$150

Thursday  \$250  \$150

Friday (no lunch)  \$165  \$110

(Single day registration includes continental breakfast and lunch for that day.  
Banquet tickets are not included in the single day fees, but can be  
purchased below.\*)

**TOTAL INSTITUTE:** Non-Member WLSL or NACS Member

Early Bird — by 1/03/20  \$500  \$295

On or after 1/04/20  \$550  \$345

**STUDENT:** Non-Member Member

\$ 55  \$ 35

(Student fee requires copy of student ID for proof of current enrollment in a  
full-time surveying/engineering or related curriculum. Student registration  
includes all meals, including banquet.)

\*Thursday Evening Banquet Ticket  \$ 50  
(availability limited)

**TOTAL** \_\_\_\_\_

## PAYMENT METHOD:

**TOTAL AMOUNT ENCLOSED:** \_\_\_\_\_

Check

MasterCard  Visa  Discover

Cardholder's name \_\_\_\_\_

Cardholder's signature \_\_\_\_\_

Cardholder's phone # \_\_\_\_\_

Card number \_\_\_\_\_ Expires \_\_\_\_\_