

INDIANA SOCIETY OF PROFESSIONAL LAND SURVEYORS

73RD ANNUAL CONVENTION PROGRAM

January 15-17, 2025 | Old National Events Plaza, Evansville



Registration Brochure

PROGRAM | WEDNESDAY, JANUARY 15, 2025

Surveyors in Jeopardy

Gary Kent

1:00 p.m. - 4:00 p.m. | Mandatory | 3 CEUs

This interactive program, inspired by Jeopardy!, presents answers for which audience members, in teams, must identify the correct questions. Covering around 175 answer-question pairs, the topics include Indiana Statutes and Rules, Boundaries, ALTA/NSPS Land Title Surveys, Safety and Health, and more. Focused on audience participation, this session is far more than trivia. Each answer is followed by an in-depth discussion to ensure all participants understand the correct response and the reasoning behind it, as well as why other answers may be incorrect. It's a fun, engaging way to deepen professional knowledge.

Ethics for Land Surveyors and Engineers

Jeff Lucas

1:00 p.m. - 4:00 p.m. | Mandatory | 3 CEUs

This seminar explores ethical considerations in everyday surveying practice, using the National Society of Professional Surveyors' (NSPS) "Creed and Canons" and state-specific codes of conduct as a foundation.

Participants will examine real cases involving surveyors and engineers, identifying the ethical issues within each scenario. Hypothetical situations are also discussed to prompt further reflection. The seminar encourages active participation, often generating lively discussions around the actions taken by professionals in these cases. It's an engaging way for surveyors to deepen their understanding of ethical behavior in their field.

Welcome Reception

4:00 p.m. - 6:00 p.m.

Kick off your ISPLS convention experience with our welcome reception! Familiarize yourself with our vendors, exhibitors and their products while enjoying a cocktail and hors d'oeuvres. Open to all attendees.

Purdue University Alumni & Vincennes University Alumni Reunion Parties

6:00 p.m. - 8:00 p.m.

Join alumni from your alma mater to reminisce on those glory days and support their programs. Details forthcoming.

PROGRAM | THURSDAY, JANUARY 16, 2025

Breakfast

7:00 a.m. - 8:00 a.m.

The Art of Retracement

Gary Kent

8:00 a.m. - 3:30 p.m. | Mandatory | 6 CEUs

This program encourages deep thought and interaction, challenging surveyors on practices they've been taught to avoid. The presenter will offer support for these practices, leading to critical thinking and discussion. Participants will receive a flowchart to guide the retracement process, along with several boundary survey scenarios for group discussion. By examining these examples, the program fosters engagement and thoughtful reflection, prompting the audience to reconsider conventional survey practices. It's a highly interactive session designed to provoke critical thinking and encourage a deeper understanding of boundary survey principles.

What Went Wrong?

Jeff Lucas

8:00 a.m. - 11:00 a.m. | Mandatory | 3 CEUs

This program examines at least 10 court cases to explore the mistakes made by surveyors and the valuable lessons that can be learned. Attendees will review the steps taken by errant surveyors and discuss errors, omissions, negligence, and boundary law. By analyzing these real-world examples, participants will gain insights into how to avoid similar pitfalls in their own practice. The session aims to enhance professional competence by highlighting common issues and offering strategies to prevent legal and ethical missteps in land surveying.

PROGRAM | THURSDAY, JANUARY 16, 2025 (CONTINUED)

New Datums and You: How to Prepare for the Upcoming Updates from NGS

Jacob Heck & Matthew Badger

8:00 a.m. - 11:00 a.m. | Elective | 3 CEUs

During this joint presentation, we will discuss how NGS is updating the National Spatial Reference System, including the update from NAD 83 and NAVD 88 to NATRF2022 and NAPGD2022, fundamentally changing the approach to geodetic control in the very near future. This will include the online tools that are available, updates to survey field practices to work in the new system, and showing the modernized role of passive control and the CORS network. This will be presented from both the NGS perspective and that of the practitioner, so it will cover practical impacts of how to prepare for the change, including maintaining existing data.

Precision: The Journey of Height Modernization in Indiana

Randall Nick

8:00 a.m. - 11:00 a.m. | Elective | 3 CEUs

This seminar will explore the history of height modernization in Indiana, a key chapter in the state's geodetic evolution. We will examine how Indiana's dedication to accuracy and innovation has shaped its geodetic infrastructure, from the Indiana High Accuracy Reference Network (HARN) to grassroots initiatives. Learn how a collaborative effort by the Indiana Society of Professional Land Surveyors (ISPLS) and the Indiana Geographic Information Council promoted GNSS technology to establish high-accuracy elevations, inspired by the National Geodetic Survey's technical memorandums. The seminar will highlight the challenges and successes of Indiana's journey toward height modernization and its importance for informed decision-making.

Lunch & Keynote Presentation

11:00 a.m. - 12:30 p.m.

Rights of Way and Prescriptive Rights

Jeff Lucas

12:30 p.m. - 3:30 p.m. | Mandatory | 3 CEUs

This program will explore the complexities of right-of-way classifications, examining when a right-of-way is merely a burden on the servient estate versus when it becomes a distinct estate in fee.

We will discuss the emergence of prescriptive easements and the differences between private and public prescriptive rights. Attendees will analyze real property rights, focusing on non-possessory interests created by rights-of-way and easements. The program will cover how rights-of-way are created, the process of acquiring prescriptive rights, and their implications on real property rights through case studies. Additionally, we will review applicable statutes, defenses, and the impact on surveyors and their practices.

Indiana Common Law Research for Surveyors

Bryan Catlin

12:30 p.m. - 1:45 p.m. | Mandatory | 1.5 CEUs

This session will show attendees how to perform on-line research of Indiana common law so that boundary decisions can be made that comply with common law.

Beyond Boundaries: Technology Integration in Surveying

Steven Jones

12:30 p.m. - 1:45 p.m. | Elective | 1.5 CEUs

The course will investigate the integration of new technologies and how these may impact the profession. It will address how to prepare for upcoming needs in staff development, hiring, and recruiting. Topics addressed will be the applications of LiDAR, Unmanned Aircraft Systems, Artificial Intelligence, the modernization of the National Spatial Reference System and how to capitalize on these changes.

The Importance of a Passive Control GPS Networks for Surveying and Mapping

Kevin Breizke

2:15 p.m. - 3:30 p.m. | Elective | 1.5 CEUs

Reviewing the data and spreadsheets that were created from 4 to 5-hour OPUS observations of NGS benchmarks, we can appreciate the limitations of our shorter-term RTK GPS observations. For additional comparison, we observed the 3 miles by 3-mile grid of passive benchmarks I set in 1999 for the Porter County Auditors digital ortho photogrammetry project. Those benchmarks for which we contracted GPS observations in 1999 were based on Porter County's six HARN points observed in 1997. Also, I developed a high order passive point network to check, calibrate or correct references and ground control.

PROGRAM | THURSDAY, JANUARY 16, 2025 (CONTINUED)

I will discuss the procedures and issues of recovering the historic NGS monuments, problems and solutions for declaring the benchmarks "Destroyed", and multipath issues that led to failure of OPUS solution and we need to be aware of for other GPS observations. Finally, OPUS observed passive marks can ensure accurate geospatial data and support other ongoing surveying and mapping efforts.

Drones: More Than a Birds Eye View

Kory Allred

2:15 p.m. - 3:30 p.m. | Elective | 1.5 CEUs

By now Land Surveyors know what drones are and that they are making an impact in the profession. But what exactly can they be used for? We will discuss drones, processing, data, and accuracy at a deeper level.

ISPLS Annual Business Meeting

4:00 p.m. - 5:30 p.m.

General Membership Business Meeting to discuss the past and future activities of ISPLS and the IPLS Foundation.

Cocktail Reception

6:00 p.m. - 6:30 p.m.

ISPLS Convention Banquet and Award

Presentation

6:30 p.m. - 8:00 p.m.

Ticket required (one ticket included in Full Registration). Essential and One-Day registrants require separate ticket purchase.

PROGRAM | FRIDAY, JANUARY 17, 2025

Breakfast

7:00 a.m. - 8:00 a.m.

Mock Trial - Hobert v. Rogers

Gary Kent

8:00 a.m. - 3:30 p.m. | Mandatory | 6 CEUs

In this session, we will examine a right-of-way easement granted to Jesse Hobert by a 2010 Stipulated Order of the Indiana State Supreme Court, allowing access to his lots in Mohawk Lake Number 1 Subdivision. The easement lies on property owned by Daniel Vincent, surrounding Mohawk Lake. Charles Rogers, believing the drive used by Hobert crosses his lots instead of Vincent's property, raises a dispute. While Rogers' surveyor, William Foster, supports his claim, Hobert's surveyor, Joseph Meyers, asserts the lot lines are further northeast, confirming Hobert's use of the easement. Attendees will participate as a jury while attorneys and a judge discuss the case, exploring title chains, conflicting surveys, and relevant boundary law principles. Audience questions are encouraged, and the judge will explain procedures, while the attorneys provide insights for expert witnesses.

Survey Evidence and Procedures

Jeff Lucas

8:00 a.m. - 11:00 a.m. | Mandatory | 3 CEUs

This session will provide an in-depth exploration of correct retracement theory, supported by real court cases that illustrate its application. Participants will delve into the relevant boundary law principles, gaining a clear understanding of why, when, and how these principles are applied in practice. The discussion will emphasize the importance of proper retracement methods and their legal implications, equipping attendees with the knowledge needed to navigate boundary disputes effectively. Through case studies, we will highlight key concepts and provide practical insights into the application of retracement theory in real-world scenarios.

New Datums and You: How to Prepare for the Upcoming Updates from NGS

Jacob Heck & Matt Badger

8:00 a.m. - 11:00 a.m. | Elective | 3 CEUs

This joint presentation will cover the National Geodetic Survey's (NGS) updates to the National Spatial Reference System, transitioning from NAD 83 and NAVD 88 to NAD 83 (2011) and NAVD 88 (2011). These updates will fundamentally change geodetic control practices.

PROGRAM | FRIDAY, JANUARY 17, 2025 (CONTINUED)

The session will explore available online tools, necessary updates to survey field practices, and the evolving role of passive control and the CORS network. Presented from both NGS and practitioner perspectives, the program will focus on the practical impacts of these changes and how surveyors can prepare, including maintaining existing data in the new system.

Can They Find You? Promoting Your Business in Today's Society

Kevin Woeste

8:00 a.m. - 11:00 a.m. | Elective | 3 CEUs

We will be walking through the basics of creating a website, why it's important to have SEO, how to post on LinkedIn, why blogs and short form videos are critical. We will be walking through the basics of social media, how they boost your work and post. Lastly, we will cover why it's important to show the public the work you do every day.

Lunch & Foundation Raffle Drawing

11:00 a.m. - 12:30 p.m.

Title Insurance for Land Surveyors

Jeff Lucas

12:30 p.m. - 3:30 p.m. | Elective | 3 CEUs

In this session, attendees will explore the relationship between boundary surveys and title insurance, including the potential liability for land surveyors. We will discuss what title policies cover and clarify whether surveyors are effectively in the insurance business. Participants will learn about the critical role surveys play in title insurance, the risks associated with surveying, and the implications for professional liability. Key issues surrounding these topics will be examined, providing valuable insights into how boundary surveys impact title insurance and the responsibilities of surveyors within this context.

Boundary Tracer - Engaging Highschoolers with Boundary Surveying

Joshua Carpenter

12:30 p.m. - 1:45 p.m. | Elective | 1.5 CEUs

This session reports on introducing highschoolers to topographic, UAV, and boundary surveying during a week-long surveying and civil engineering bootcamp held at Purdue University.

Boundary retracement is core to the role of a surveyor, but it is uniquely difficult to allow students to experience – especially in a classroom setting. To address this need, we developed a table-top exercise which simulates the evidential, historical, and geometric dimensions of boundary retracement within a simplified environment. We've dubbed this tool 'Boundary Tracer'. This talk focuses on the development and implementation of the exercise and discusses how students engaged with boundary surveying for the first time. Attendees will hear many examples of educational strategies which might inform their own efforts to educate or promote the surveying profession.

Laser Scanning: What Can Go Wrong?

Kory Allred

12:30 p.m. - 1:45 p.m. | Elective | 1.5 CEUs

I thought I had the perfect plan and knew what to do when I started this scanning job. But the end product wasn't the perfect mesh I thought it would be. We will discuss the process I followed, the mistakes that were made, and the changes I've made in since then to get a better product.

Boundary Tracer - Demonstrating a Tool for Surveying Education

Joshua Carpenter

2:15 p.m. - 3:30 p.m. | Elective | 1.5 CEUs

Boundary Tracer is an online tool helping novices experience the evidential, historical, and geometric dimensions of boundary retracement. This session will briefly describe the development of the tool and then walk through several exercises to demonstrate its use. Boundary Tracer was initially developed as a table-top exercise as part of a surveying and civil engineering bootcamp for highschoolers hosted by Purdue University. After the bootcamp, the exercise was moved to an online platform. Attendees interested in surveying outreach will learn about a new educational strategy that is being developed and can employ it freely and immediately in educational settings. Attendees new to the profession will get a refresher on the boundary retracement procedure and strengthen their intuition of its core principles.

ISPLS 2025 CONVENTION REGISTRATION FORM

GENERAL INFORMATION

Registration can be made several different ways. The easiest and most convenient way is online through the ISPLS website at www.ispls.org/2025-annual-convention. Registration forms can also be mailed, emailed, or faxed to the address or number below. For multiple registrants, please make copies of this form or contact ISPLS for additional forms.

Please make check payable to:

Indiana Society of Professional Land Surveyors, Inc.
3502 Woodview Trace, Ste. 300, Indianapolis, IN 46268
P: (317) 454-8309 Fax: (317) 280-8527
Email: info@ispls.org
Web: www.ispls.org

A refund of 90% of the registration fee will be given to those refund requests received on or before January 8, 2025. **After January 8, no refunds will be made.**

No online registration will be accepted after January 8. After January 8, registration will be at the door and dependent upon the availability of seating.

The **FULL REGISTRATION FEE** for the convention includes all handouts delivered electronically, refreshment breaks, two luncheons and the awards banquet. The **ONE-DAY REGISTRANT FEE** includes handouts and luncheons for the day registered.

Convention Handout Material: To reduce the cost of printing, ISPLS will make all program material available online through the ISPLS website and the ISPLS app to individuals registered for the convention.

ACCOMMODATIONS

DoubleTree by Hilton Evansville
601 Walnut Street
Evansville, IN 47708

Room Rates

Single Occupancy: \$119 or \$139

Online Reservation Link

To make a reservation, use the online reservation link or call 812-205-2471 and mention the Indiana Society of Professional Land Surveyors 2025 Convention. Reservations must be received on or before Friday, January 3, 2025 or until the room block is full.

Please select sessions you plan to attend on the reverse side of this form.

Name: _____

Company: _____

Address: _____

City: _____ State: _____

Zip: _____ Phone: _____

E-mail: _____

PLEASE CHOOSE AN ATTENDANCE OPTION:

Registration Type	Fee
Full Registration	\$445
Essential Registration (Education Only)	\$395
One-Day Registration	\$295
Student Registration (Full-Time Students)	\$50
Additional Awards Banquet Tickets	\$50/each

Subtotal: _____

Non-Members - Add \$200 Fee: _____

Firm Members - 20% Registration Discount: _____

(Full: save \$89; One-Day: save \$59)

TOTAL AMOUNT: \$_____

We accept: Visa MasterCard Discover AMEX

Card Number: _____ - _____ - _____ - _____

Exp. Date: _____ / _____ Security Code: _____

Name on card: _____

Card Mailing Address if different from above:

(City, State, & Zip)

Cardholder's Signature: _____

ISPLS 2025 CONVENTION REGISTRATION FORM

Please select one session per time slot below | E=Elective, M=Mandatory

Wednesday, January 15

1:00 p.m. - 4:00 p.m.

Surveyors in Jeopardy | Gary Kent | 3 CEUs (M)

Ethics for Land Surveyors and Engineers | Jeff Lucas | 3 CEUs (M)

Thursday, January 16

8:00 a.m. - 3:30 p.m.

The Art of Retracement | Gary Kent | 6 CEUs (M)

8:00 a.m. - 11:00 a.m.

What Went Wrong? | Jeff Lucas | 3 CEUs (M)

New Datums and You: How to Prepare for the Upcoming Updates from NGS | Jacob Heck & Matt Badger | 3 CEUs (E)

Precision: The Journey of Height Modernization in Indiana | Randall Nick | 3 CEUs (E)

12:30 p.m. - 3:30 p.m.

Rights of Way and Prescriptive Rights | Jeff Lucas | 3 CEUs (M)

12:30 p.m. - 1:45 p.m.

Indiana Common Law Research for Surveyors | Bryan Catlin | 1.5 CEUs (M)

Beyond Boundaries: Technology Integration in Surveying | Steve Jones | 1.5 CEUs (E)

2:15 p.m. - 3:30 p.m.

The Importance of a Passive Control GPS Networks for Surveying and Mapping | Kevin Breizke | 1.5 CEUs (E)

Drones: More Than a Birds Eye View | Kory Allred | 1.5 CEUs (E)

Friday, January 17

8:00 a.m. - 3:30 p.m.

Mock Trial - Hobert v. Rogers | Gary Kent | 6 CEUs (M)

8:00 a.m. - 11:00 a.m.

Survey Evidence and Procedures | Jeff Lucas | 3 CEUs (M)

New Datums and You: How to Prepare for the Upcoming Updates from NGS | Jacob Heck & Matt Badger | 3 CEUs (E)

Can They Find You? Promoting Your Business in Today's Society | Kevin Woeste | 3 CEUs (E)

12:30 p.m. - 3:30 p.m.

Title Insurance for Land Surveyors | Jeff Lucas | 3 CEUs (E)

12:30 p.m. - 1:45 p.m.

Boundary Tracer - Engaging Highschoolers with Boundary Surveying | Joshua Carpenter | 1.5 CEUs (E)

Laser Scanning: What Can Go Wrong | Kory Allred | 1.5 CEUs (E)

2:15 p.m. - 3:30 p.m.

Boundary Tracer - Demonstrating a Tool for Boundary Surveying Education | Joshua Carpenter | 1.5 CEUs (E)

Dietary Restrictions

Please indicate on the lines below any dietary restrictions for anyone in your party.

