



**REGISTRATION
BROCHURE**

2023 ANNUAL CONVENTION & SEMINAR

FEBRUARY 21-24

**GRAND TRAVERSE RESORT AND SPA
ACME, MI**

LEGAL | ETHICS | TECHNICAL TRAINING



Convention Schedule At-A-Glance

Register online for the 2023 Convention at www.misps.org

Tuesday, February 21

SEMINAR

8:00 am – 4:50 pm What Went Wrong?

7:00 pm – 9:00 pm Foresight Party

Wednesday, February 22

8:00 am – 5:00 pm CST Exam

8:30 am – 4:20 pm Land Surveyor as Equity Judge

8:30 am – 11:20 am Workforce Development for the Land Surveying Profession

8:30 am – 10:20 am Plat amendments; The Vacation, Correction and
Revision of Plats Under the Land Division Act

10:30 am – 11:20 am Work Zone Safety and New Technology Update

11:30 am – 1:30 pm General Lunch and County Surveyor's Lunch

1:30 pm – 2:20 pm Fixed Wing Aircraft vs UAV on Photogrammetric Project

1:30 pm – 3:20 pm Is Safety Really #1

2:30 pm – 3:20 pm Panel Discussion: Technician Training and Development

3:30 pm – 4:20 pm Lakebed/Seabed 2030 – Advancements in technology and mapping capabilities

3:30 pm – 4:20 pm Integrated Monitoring

4:30 pm – 6:00 pm Exhibitor Reception

continued



Convention Schedule At-A-Glance

Thursday, February 23

8:30 am – 3:50 pm	Mock Trial
8:30 am – 11:20 am	Errors, Accuracy and Precision for Surveying Technicians – Tech Track
8:30 am – 10:20 am	New FEMA Maps / New Flood Zones / New FEMA Rules
10:30 am – 11:20 am	Michigan Tech University Presentations
11:30 am - 1:00 pm	General Lunch and SURPAC Lunch
1:00 pm – 2:50 pm	Boundary Evidence Evaluation & The Field Surveyor – Tech Track
1:00 pm – 1:50 pm	Ferris State University Presentations
2:00 pm – 2:50 pm	IN-MI River Valley Trail
3:00 pm – 3:50 pm	Data Comparison and Applications of UAV - Drone Imagery Based Point-clouds vs. UAS LiDAR Point-clouds
3:00 pm – 3:50 pm	Roundtable Discussion on Issues and Hot Topics from the National Level
4:00 pm – 5:30 pm	Annual Membership Meeting
5:30 pm – 7:00 pm	Member Recognition Reception

Friday, February 24

8:30 am – 9:20 am	Immerging Geospatial Technologies in Surveying
8:30 am – 10:20 am	Business Ethics as a Way of Life
8:30 am – 11:20 am	Safe Excavation Practices
9:30 am – 10:20 am	Modernizing OPUS Projects: How NGS is improving tools to access the NSRS
10:30 am – 11:20 am	Contract Law for Beginners
10:30 am – 11:20 am	Debunking Myths and Reducing Risks When Selecting Professional Service Providers

Audiovisual recordings and photographs will be taken during this event, which may be used for promotional and other purposes in all forms of media, including the Internet. By attending this event, you are consenting to being recorded and photographed and to the use of your likeness and voice in any media in perpetuity by the Michigan Society of Professional Surveyors, and anyone acting under its authority or permission for promotional purposes or for whatever other purpose it sees fit.



TUESDAY, FEBRUARY 21

SEMINAR

8:00 AM – 4:50 PM 8 CEUS

What Went Wrong?

Jeff Lucas

As I continue “Traversing the Law,” studying and writing about court cases involving boundary disputes and land surveyors, I have found everything from the ridiculous

to the sublime. In some cases, I had to shake my head in disbelief over what I was reading, leaving me with just one question: What went wrong? This seminar will investigate the answer to this question by a detailed study of relevant court decisions involving surveyors and surveys that went terribly wrong. The painful lessons learned by others through the school of hard knocks can be painlessly explored and appreciated without the accompanying liability and damages that attach to boundary disputes and negligence actions.

SESSIONS

WEDNESDAY, FEBRUARY 22

8:30 AM – 4:20 PM 6 CEUS

Land Surveyor as Equity Judge

Jeff Lucas

Over 125 years ago, Justice Cooley wrote and spoke about the quasi-judicial function of the land surveyor when performing the surveyor’s role as a retracing surveyor. Why did he make this comparison in this context? Does the land surveyor truly have a quasi-judicial function, and if so, how does that compare and contrast with the function of the law judge sitting on the bench or the jury sitting in the jury box? While Cooley might be the most prominent voice to talk about the surveyor’s quasi-judicial functions, he certainly wasn’t the only one to do so. Z.A. Enos (Ill. c.1890), F. Hodgman (Mich. c.1890), A.C. Mulford (N.Y. c.1900), and Frank Emerson Clark (Minn. c.1920), are a few of the earlier voices on this same subject. In more recent years notable surveyors such as Ira Tillotson (c.1974), Henry Sipe (c.1974), Dean & McEntyre (c.1974), and Williams & Onsrud (c.1986), discussed the surveyor’s role as judge and jury when it comes to final boundary decisions. In this seminar we will take these discussions deeper to understand what they all were talking about and to shed light on the surveyor’s role as an equity judge.

8:30 AM – 11:20 AM 3 CEUS

Workforce Development for the Land Surveying Profession

Todd Horton, PLS, PE

Business survival requires us to adapt to ever-changing conditions. Our current hiring challenges compel us to question our assumptions, exploring new, and sometimes

old, ways to grow our technical workforce. Join us to explore relevant strategies and learn about the new MSPS technician development program kicking off in 2023.

8:30 AM – 10:20 AM 2 CEUS

Plat amendments; The Vacation, Correction and Revision of Plats Under the Land Division Act

Nick Clever, PS

This presentation will cover the amendment of plats through the circuit court process pursuant to Sections 221-229 of the Land Division Act (LDA) [1967, PA 288, MCL 560.101 et seq.] The presentation will cover what leads up to and causes the filing of a circuit court complaint; the filing of the complaint and our offices interactions (and in many cases the surveyors) leading up to the entry and recording of a judgment vacating, correcting or revising a plat of record; the surveyor’s role in certain instances to prepare exhibits included in the judgment; and final preparation of an amended plat or plats made in accordance with the court judgment and the LDA. This presentation is intended to be interactive so questions are encouraged although questions specific to current ongoing litigation will not be addressed. Time permitting Nick will receive questions related to other programs the Office of Land Survey administrators.

10:30 AM – 11:20 AM 1 CEU

Work Zone Safety and New Technology Update

Chris Brookes

Chris Brookes from the Michigan DOT will be covering general work zone safety and requirements along with sharing technologies that are new to the market or still being tested. Come and learn about how you can improve your safety while on the roadway.



SESSIONS *continued*

1:30 PM – 2:20 PM 1 CEU

Fixed Wing Aircraft vs UAV on Photogrammetric Project

Greg Lemke and Denny Sauers

Greg Lemke and Denny Sauers with ROWE Professional Services Company will be discussing how determinations are made regarding using fixed wing aircraft or a UAV for a potential photogrammetric project. We will also look more in depth at an existing project that used different types of data input for the overall topographic map product - topographic surveying as well as photogrammetric surveying from fixed wing and UAV platforms with airborne LiDAR.

1:30 PM – 3:20 PM 2 CEUS

Is Safety Really #1

Michael Burns

The discussion will revolve around the true place of safety in workplaces and why it falls as far as it does. The presenter will also discuss ways to change safety culture to turn this trend around, various training methods that can be used, and where to begin, as well as discuss the benefits of a safety program.

2:30 PM – 3:20 PM 1 CEU

Panel Discussion: Technician Training and Development

Panel

Join us for panel discussions and audience Q&A centered on technician training and development. We will discuss where we are, how we got here and where we are going. The panel members will include representatives from employers, educators, technicians and professional organizations. The conversation will be facilitated by Chris Beland.

3:30 PM – 4:20 PM 1 CEU

Lakebed/Seabed 2030 – Advancements in Technology and Mapping Capabilities

Hans Van Sumeren

Significant progress has been made toward the ambitious goal of mapping the world ocean and Great Lakes by 2030. Explore new approaches and industry driven contributions that will make this vision a reality.

3:30 PM – 4:20 PM 1 CEU

Integrated Monitoring

Rowland Chen

The world of monitoring is expanding and now includes a wide variety of technologies. Rowland Chen, Monitoring

Sales Manager Trimble Geospatial, will review and educate attendees on what sensors are available, what applications they work in, and how to integrate multiple data sets and workflows to ensure reliable and comprehensive data.

THURSDAY, FEBRUARY 23

8:30 AM – 3:50 PM 6 CEUS

Mock Trial

Jeff Lucas

This mock trial is loosely based on the case of Dowdell v. Cotham, a case involving neighbors who for over 20 years lived in happy-peaceful-coexistence, until one of the neighbors hired a surveyor to survey his property. After that—well—let's just say that things were never the same. This seminar will explore the world of civil litigation through a mock trial based on a real-life boundary dispute case. Through audience participation, volunteers will play the roles of attorneys, landowners, lay witnesses and expert land surveyor witnesses; the seminar leader plays the role of judge. The remainder of the audience will be divided into jury pools, each with a foreman spokesperson. The size and number of juries will be determined by the size of the remaining audience. The trial will include elements of Dowdell v. Cotham, with features of other boundary dispute cases utilized as appropriate. The trial will be held and the juries will deliberate. Following deliberation, each jury will then render their verdict, and discuss their reasoning. Each jury will be required to field questions from the trial participants and other juries, and defend their verdict. This seminar is designed to demystify the litigation process and explain the rules of engagement that will be used in court.

8:30 AM – 11:20 AM 3 CEUS

Technician Track

Errors, Accuracy and Precision for Surveying Technicians

Todd Horton, PLS, PE

Solid risk management strategy demands that field personnel understand measurement errors, their sources, and proven mitigation methods. Detecting our own problems is significantly less costly than letting others find them for us. Join us to strengthen your understanding or to prepare for training your own people.



SESSIONS *continued*

8:30 AM – 10:20 AM 2 CEUS

New FEMA Maps / New Flood Zones / New FEMA Rules

Karol Grove, PS, CFM

This class will cover the changes to the coastal regions of Michigan with the introduction of Coastal and Velocity flood zone designations. Additionally, we will touch on how to establish a flood zone within the Zone AO areas, which are popping up on all the newest maps. We will also discuss the many ways to assist clients when working in or near Zone A (unstudied) designations. Touching on the many choices to make with flood zone issues and how to utilize the tools available, such as CLOMR's.

10:30 AM – 11:20 AM 1 CEU

Hear from MTU Students on Current and Future Projects

Michigan Technological University

1:00 PM – 2:50 PM 2 CEUS

Technician Track

Boundary Evidence Evaluation & The Field Surveyor

Joel East, PS

Like a lawyer paints a picture for their client, we as surveyors do the same and need to ensure that the evidence collected in the field allows us to support our determination of a boundary. The field surveyor plays a vital role as the detective collecting evidence and must have a working knowledge of the elements of common law as well as the effect of technology on the 'art' of surveying. This session aims to review what common law is as well as the rules of construction, what Thomas Cooley had to say about the field surveyor, and the effects of technology on the field surveyor today.

1:00 PM – 1:50 PM 1 CEU

Hear from FSU Students on Current and Future Projects

Ferris State University

2:00 PM – 2:50 PM 1 CEU

IN-MI River Valley Trail

Suzannah Deneau

The Indiana-Michigan River Valley Trail is a 17-mile trail connecting Niles, MI to Mishawaka, IN. Wightman assisted Niles Charter Township with their portion of the project from

the Indiana state line to the City of Niles. The 4.4 mile section of non-motorized trail is parallel to a commercial, retail corridor in Niles Charter Township and utilized by pedestrian travelers and recreation enthusiasts. The trail is 10' wide with 2' shoulders through wooded passageways, along city streets, and across Brandywine Creek. The next section of trail will be continued on by multiple communities ultimately connecting to US Bicycle Route 35 and Lake Michigan.

The trails have been mainly built on routes previously utilized by interurban railroads. These long defunct companies have left a complicated patchwork of property remnants. While the old rail corridor location is often still apparent in the existing property lines, the parcels vary from long, narrow "right-of-way" type sections owned by utility companies to portions long since absorbed by adjacent parcels. Wightman has been involved in sorting out current ownership and access rights issues associated with these unique projects. This involves confronting incorrectly held beliefs of land owners and local officials.

3:00 PM – 3:50 PM 1 CEU

Data Comparison and Applications of UAV - Drone Imagery Based Point-clouds vs. UAS LiDAR Point-clouds

Jennifer Triana

In recent years the geospatial drone market has expanded dramatically. Drone based UAS (LiDAR) and UAV (Imagery) systems vast differences make it difficult to choose one over the other. This presentation aims to explore their differences from the point cloud processing aspect. We will examine the pros and cons of each system for practical survey and mapping applications such as topographies, bare earth, volumetrics, etc. Learn how data accuracy, density, intensity/color and other data characteristics affect a deliverable. We will also discuss the role of drone systems in supplementing other platforms for fusion projects and show some successful case studies.

3:00 PM – 3:50 PM 1 CEU

Roundtable Discussion on Issues and Hot Topics from the National Level

Bob Akins

This roundtable discussion moderated by President-Elect of NSPS will include topics revolving around legislative issues hitting at the national level and in the Midwest.



SESSIONS *continued*

FRIDAY, FEBRUARY 24

8:30 AM – 9:20 AM 1 CEU

Immerging Geospatial Technologies in Surveying

Rami Tamimi

The Geospatial industry continues to innovate and provide users with new tools to assist in the workflows of everyday surveys. This technology is aimed to provide efficiency and cost benefits to its users allowing them to execute projects without compromising their accuracy. In this session, we will discuss the latest in consumer-accessible geospatial technology, research-based workflow with tools being studied for the future, and understanding the importance of utilizing this technology correctly to maintain the reputation of accuracy in the surveying industry

8:30 AM – 10:20 AM 2 CEUS

Business Ethics as a Way of Life

Andrew Wible

This session will develop more awareness of issues in business ethics, consider a variety of ways to assess those issues, and develop critical thinking skills and habits to live and work morally.

8:30 AM – 11:20 AM 3 CEUS

Safe Excavation Practices

Jef Johnson

The MISS DIG 811 presentation will cover safe excavation practices, Public Act 174 (also known as PA 174 or the MISS DIG 811 Law), and the MISS DIG 811 process. It will include placing a ticket, checking Positive Response, scouting a job site before excavation begins, safely hand-exposing facilities, and emergency procedures along with defining the three work zones in Michigan. The presentation also covers the MPSC's role, penalties for violating PA 174, and exemptions to PA 174.

9:30 AM – 10:20 AM 1 CEU

Modernizing OPUS Projects: How NGS is Improving Tools to Access the NSRS

Jacob Heck

NGS's Online Positioning User Service (OPUS) provides simplified access to high-accuracy National Spatial Reference System (NSRS) coordinates. OPUS Projects gives users web-based access to simple management and processing tools for projects involving multiple sites and multiple occupations. As NGS modernizes the NSRS, these tools are

being updated to better serve the needs of surveyors and other users of the NSRS. I'll discuss these recent updates to these online tools, including how to utilize GNSS vectors derived from real time network observations, as well as future goals to improve the OPUS suite of tools.

10:30 AM – 11:20 AM 1 CEU

Contract Law for Beginners

Joel East, PS

Whether it is a simple contract for a small boundary or a large government contract, a contract is said to be a promise for the breach of which a remedy is given by law or the performance of which the law in some way defines as a duty. This session aims to give a general understanding of contract formation, enforceability, interpretation, and breach of contract.

10:30 AM – 11:20 AM 1 CEU

Debunking Myths and Reducing Risks When Selecting Professional Service Providers

Ron Brenke, PE

It's counterintuitive, but one of the most common project procurement practices can actually result in higher project costs. Additionally, professional liability insurance carriers report that design projects selected using this popular method carry a higher risk than other forms of procurement.

Join Ron Brenke, P.E., as he shares the results from a brand-new national study comparing the project outcomes of common procurement practices. Research shows that projects using one specific procurement process have 70% fewer cost overruns, shorter schedules and improved construction quality.

Ron will share case studies of Michigan municipalities and agencies that have used this innovative procurement process. The presentation will also include attendee resources, such as checklists and easy to-use guides.



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PLATINUM



GOLD



SILVER



TECHNICAL TRACK



KEYNOTE SPEAKER





SPECIAL EVENTS

CST EXAMS

Wednesday, February 22

8:00AM – 5:00PM

Become a Certified Survey Technician (CST)

No matter what the future holds, prepare to meet challenges head on. Future-proof your resume by becoming a Certified Survey Technician (CST). This unique four-level certification program indicates official recognition by NSPS that a person can perform surveying tasks at a specific technical level. Show what you can do! Decide between the field or office track. Visit <https://cstnsp.com/> for details or contact CST Coordinator John Fenn at 23505@msn.com.

FORESIGHT RECEPTION

Tuesday, February 21

7:00PM – 9:00PM

Kick off the Convention with your peers during this networking event!

COUNTY SURVEYOR'S LUNCH

Wednesday, February 22

11:30PM – 1:30PM

EXHIBITOR RECEPTION

Wednesday, February 22

4:30PM – 6:00PM

Join us in the exhibit hall for a casual reception and opportunity to visit with conference exhibitors.

Refreshments and snacks will be provided. Silent auction items will also be available for bid in the exhibit hall throughout the conference with winning bids being announced on Thursday during the Member Reception.

SURPAC (SURVEYORS POLITICAL ACTION COMMITTEE) LUNCH

Thursday, February 23

11:30PM – 1:00PM

Please join us for a legislative update provided by MSPS's lobbyist, Melissa McKinley from the Kelley Cawthorne Firm. By attending this important update luncheon, you

will be contributing to the SURPAC, which allows MSPS to support legislators who support our profession.

For MSPS to be successful in achieving their goals, we need your help. Please consider attending this luncheon by making a SURPAC contribution of \$100.00 (minimum). Thank you for your support.

ANNUAL MEETING

Thursday, February 23

4:00PM – 5:30PM

MEMBER RECOGNITION RECEPTION

Thursday, February 23

5:30PM – 7:00PM

Please join us on Thursday evening for a pre-dinner reception. This evening is about you, the surveyors. It's a time for us to show our appreciation for all that you do for the profession, past, present, and future. New Life Members and New Licensees will be introduced, and scholarships will be presented to the next generation of surveyors. Individuals will be recognized for the value they have added to the profession through their investment of time and volunteerism. All these activities will be done against the backdrop of a relaxed social atmosphere and giveaways throughout the evening. The Foundation's Silent Auction will be in full effect with closing bids at various times throughout the evening.

HOTEL INFORMATION

Grand Traverse Resort Room Block is Open!

Book Online at grandtraverseresort.com with the code MSPS023 or call 231-534-6000

MICHIGAN SOCIETY OF PROFESSIONAL SURVEYORS

Convention & Seminar • February 21-24, 2023 • Grand Traverse Resort and Spa, Acme, MI

REGISTRANT INFORMATION

(check one) P.S. Associate Affiliate Non-Member

Name _____

Chapter _____

Company _____

Address _____

City, State, Zip Code _____

Phone _____

Email _____

Dietary Restrictions _____

CONVENTION REGISTRATION FEES

	By January 31, 2023	After January 31, 2023
FULL CONVENTION <i>(Wednesday-Friday)</i>	<input type="checkbox"/> Members \$320	<input type="checkbox"/> \$370
	<input type="checkbox"/> Non Members \$700	<input type="checkbox"/> \$750
SINGLE DAY <i>(Convention)</i>	<input type="checkbox"/> Members \$160	<input type="checkbox"/> \$210
	<input type="checkbox"/> Non Members \$560	<input type="checkbox"/> \$610
SEMINAR <i>(Tuesday Only)</i>	<input type="checkbox"/> Members \$200	<input type="checkbox"/> \$250
	<input type="checkbox"/> Non Members \$600	<input type="checkbox"/> \$650
SEMINAR & CONVENTION <i>(Tuesday-Friday)</i>	<input type="checkbox"/> Members \$495	<input type="checkbox"/> \$545
	<input type="checkbox"/> Non Members \$1,245	<input type="checkbox"/> \$1,295

TOTAL AMOUNT DUE	
Convention Fee	\$ _____
Meals Fees	\$ _____
Processing Fee	\$ <u>5.00</u>
Grand Total Due	\$ _____
<i>See payment information below.</i>	

We encourage you to register online to avoid processing fee and accurate program and appropriate CEU credit. Visit www.MiSPS.org

MEALS

Please indicate the number attending *Qty.*

Wednesday Lunch \$40 _____

Wednesday Lunch - County Surveyors \$50 _____

Thursday Lunch \$40 _____

Thursday Lunch SURPAC* \$100 _____

*SURPAC Lunch payment must be made with a separate payment made directly to the SURPAC with a personal check or credit card.

CONVENTION SESSION REGISTRATION

TUESDAY, FEBRUARY 21

SEMINAR

8:00 am - 5:00 pm What Went Wrong

WEDNESDAY, FEBRUARY 22

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PAYMENT INFORMATION:

Payment Information Credit Card: Discover MasterCard Visa Check (payable to MSPS)

Card # _____ Exp. Date _____ CVV # _____

Cardholder Name (Print): _____ Authorized Signature _____

Address on Credit Card: _____

We encourage you to register online for accurate program and appropriate CEU credit. Visit www.MiSPS.org to register or send this page with your payment (including processing fee) information to: Michigan Society of Professional Surveyors, PO Box 22054, Lansing, MI 48909 or fax to 517.708.7250

Refund Policy: A \$50 processing fee will be assessed on all cancellations on or before January 31, 2023. No refunds will be issued after January 31, 2023.