



Texas Society of Professional Surveyors
2525 Wallingwood Drive Ste 300
Austin, Texas 78746

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SYMPOSIUM



DESTINATION EL PASO

MARCH 1 - 2, 2019

HOSTED BY, TSPS CHAPTER 17 - PASO DEL NORTE

2019 SYMPOSIUM

FRIDAY, MARCH 1

7:00 am – 5:00 pm

Registration

8:00 am – 12:00 pm

“Hot Topics” in Surveying: A Panel

Moderator: Shane Neally, RPLS

Panel: Connor Brown, RPLS, PLS; Kenneth Gold, RPLS; Stan Piper, RPLS, PLS, LSLS; Heather Sides, RPLS, PLS, CFedS; Patrick Veteto, PE, RPLS

This course will be a moderated panel discussion of “Hot Topics” in Surveying. It will primarily cover discussions on ethics, standards, boundary surveying and business practices. Other topics of discussion include TSPS standards, technology, oil and gas surveying and history.

The moderator, Shane Neally, RPLS, will identify questions concerning the surveying profession and present them to the panel. He will be able to engage the attendees in real-time using a web-based software program. The attendees will be able to ask questions and answer polls via their smartphones.

(4 CEUs, includes 4 hrs of Ethics/Rules)

Noon – 1:00 pm

Lunch On Your Own

1:00 pm – 5:00 pm

Texas Oil & Gas: Surveying Upstream

Speakers: Josh Leamons, RPLS, Attorney at Law; Stan Piper, RPLS, PLS, LSLS

This course will attempt to remove the mystery surrounding oil and gas surveying. While introducing upstream oil and gas surveying, provide details regarding standards of practice, and facilitate discussion. In this course, we will look at the history of oil and gas in Texas and examine the basic upstream oil and gas terms, review the laws and regulations that affect oil and gas surveying, discuss units and leases, examine several well location plats, examine the TBPLS position statement and sample plat, review Attorney General opinions, consider RRC standards, review common and preferred notes and certifications, and review the economic and ethical considerations of the business.

(4 CEUs)

1:00 pm – 5:00 pm

Business Metrics

Speaker: Patrick Veteto, PE, RPLS

The Business Metrics presentation will include computation of time utilization, salary costs, overhead burden, and billing rates/goals necessary to cover the cost of providing quality surveying services while achieving sustainable profitability. We will also discuss how to measure performance at the project manager level utilizing three simple, but competing metrics; production, effort and efficiency. The target audience should include business owners, prospective owners, managers, project managers, and anyone involved in procurement of surveying services. The intent of the course is to identify critical business performance measures that are simple and understandable, and suggest how to establish billing rates that compensate for the costs of operating a survey business.

(4 CEUs, includes 4hrs of Rules)

5:15 pm - 7:30 pm

New Mexico & Texas Young Surveyors Meeting

This meeting will be broken into three sessions: general discussion, panel discussion and a presentation by Dr. Kurt Wurm from New Mexico State University.

5:30 pm - 8:30 pm

Cervezas y Saludos - Meet & Greet!

Hosted by TSPS Chapter 17 - Paso Del Norte

Paso Del Norte invites you to a night filled with music, munchies and mingling on the Wyndham Patio.

SATURDAY, MARCH 2

7:00 am – 2:00 pm

Registration

8:00 am – 12:00 pm

Land Descriptions: Preparation, Analysis & Perpetuation

Speaker: Michel Newton, RPLS, LSLS

The course will cover techniques to prepare data and teach students how to analyze descriptions for a clear survey. They will learn how to gather the necessary data, analyze it and prepare it properly in order to leave a clear representation of a survey that will honor the past, preserve the present and protect the future.

(4 CEUs)

8:00 am – 12:00 pm

Searching for the Truth: Texas Boundary Law Applied

Speakers: Josh Leamons, RPLS, Attorney at Law; Stan Piper, RPLS, PLS, LSLS

In this course, we will review the fundamental boundary law principles, case law, and board rules. Once the legal and ethical standards have been established, we will apply them to fact patterns based on real surveys prepared by negligent surveyors across Texas. This course will help surveyors young and old to better understand how to ethically determine boundaries. We will also review good and bad examples of certifications found on surveys performed in Texas. We will discuss the benefits and pitfalls of the various notes and certifications from an ethical and legal perspective.

(4 CEUs, includes 4 hrs of Ethics)

8:00 am – 12:00 pm

Study Group for RPLS Candidates

Speakers: Jason Jernigan, RPLS

Are you pursuing an RPLS license in Texas? Topics discussed include RPLS exam application procedures and exam format overview, a review of key definitions necessary for success on the legal portion of the exam, and a practicum involving several different boundary analysis scenarios in preparation for the analytical portion of the exam. **Attendees should bring a scientific calculator and be familiar with its operation. (Paraprofessional - No CEUs)**

8:00 am – 12:00 pm

Survey Math 101

Speaker: James Redmon, RPLS, LSLS

This course will prepare students for topics covered in Survey Math 301 and will help prepare them for Level 1 of the NSPS Certified Survey Technician Exam. Basic math computations relating to conventional surveying techniques will be demonstrated and real field survey scenarios will be provided for attendees to solve. By the end of this course attendees will be able to manipulate equations to solve for a missing variable, solve right triangles for the missing elements when given two known elements, and derive angles, distances, and new coordinates from given coordinates. **Attendees should bring a scientific calculator and be familiar with its operation. (Paraprofessional - No CEUs)**

Thank You Symposium Sponsors:

Advanced Geodetic Surveys, Inc.

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Geomatic Resources, LLC

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SURV-KAP

TSPS Chapter 4 - East Texas

TSPS Chapter 5 - Dallas

TSPS Chapter 9 - Gulf Coast

TSPS Chapter 11 - Alamo

To sponsor the 2019 Symposium, please contact Brenda Null at BrendaN@tspss.org or 512-327-7871.

CLASSES & EVENTS

SATURDAY, MARCH 2 (Continued)

8:00 am – 12:00 pm

Survey Math 301

Speakers: Heather Sides, RPLS, PLS, CFedS; Aaron Ferguson, RPLS

This seminar proves to be beneficial to those reviewing their math skills for levels 1-3 of the CST exam, the SIT exam, or seeking a better understanding of the basic math behind the mechanics of surveying. This course demonstrates intermediate math computations relating to conventional surveying techniques and provides real field survey scenarios for attendees to solve. Topics presented include: ABC's of Trigonometry, Algebraic Manipulation, Law of Sines and the Law of Cosines Formulas. By the end of this seminar attendees will be able to apply the ABC's of Mathematics to use Law of Sines and Law of Cosines to solve for missing elements of oblique triangles.

(Paraprofessional - No CEUs)

Noon – 1:00 pm

Lunch On Your Own

1:00 pm – 5:00 pm

Surveying: A Learned Profession

Speakers: Connor Brown, RPLS, PLS; Shane Neally, RPLS

The facilitators will present the three Pillars of a Learned Professional and provide opportunities for attendees to recognize and discuss how each one applies to real life land surveying practice. By the end of the course, the student will learn the definition of "a learned profession", be able to identify three responsibilities unique to the surveying profession: recognizing and practicing the profession of land surveying with integrity and honesty, serving the public ethically and honestly, and practicing ways to pay it forward for the good of the profession by obtaining, retaining, and disseminating surveying knowledge.

(4 CEUs, includes 4 hrs of Ethics)

1:00 pm – 5:00 pm

Boundary Retracement, Rules & Applications

Speaker: Paul Carey RPLS, LSLS

The course is designed to cover fundamental rules, laws and guidelines for land boundary retracement procedures. Using numerous exercises for attendees to practice solving various boundary reconstruction scenarios, the following key points will be covered:

- Determining seniority of surveys and the retracement of original survey lines
- Partitions, simultaneous conveyances, and evaluation of the written instruments
- Determining seniority of tracts & deeds and the application of junior/senior rights
- Application of dignity of calls, four corners rule, and exceptions to the rules
- Recognizing conflicts, ambiguities & discrepancies in boundary reconstruction

This course is perfect for technicians, SIT's and Registered Surveyors seeking some broader horizons and exposure to a diversity of boundary problems.

(4 CEUs, includes 4 hrs of Rules)

1:00 pm – 5:00 pm

GLO Working Sketch Preparation

Speakers: Jason Jernigan, RPLS; Mark Neugebauer, RPLS, LSLS

Instruction will be provided on the proper use, application, and drafting of official GLO working sketch symbols, witness tree abbreviations, and other abbreviations used in compiling a working sketch. Instruction on how to read, interpret, and understand the original field notes, file jacket, and other important detailed information contained within an archive file of an original land grant survey and translate that information into a complete working sketch. Provide information to participants so that they can apply working sketch techniques and applications for use in everyday business practice on boundary retracement surveys.

(4 CEUs)

1:00 pm – 5:00 pm

CST Exam Prep Course

Speaker: James Redmon, RPLS, LSLS

This course will prepare students for topics covered in the Survey Math 301 and will help prepare them for Level 1 of the NSPS Certified Survey Technician Exam. Basic math computations relating to conventional surveying techniques will be demonstrated and real field survey scenarios will be provided for attendees to solve. By the end of this course attendees will be able to manipulate equations to solve for a missing variable, solve right triangles for the missing elements when given two known elements, and derive angles, distances, and new coordinates from given coordinates.

(Paraprofessional - No CEUs)

1:00 pm – 5:00 pm

Survey Math 401

Speakers: Aaron Ferguson, RPLS;

Heather Sides, RPLS, PLS, CFedS

This seminar proves to be beneficial to those reviewing their math skills for levels 1-3 of the CST exam, the SIT exam, or seeking a better understanding of the math for horizontal & vertical curves. This course demonstrates math computations relating to the use curve formulas to solve for missing elements of horizontal curves and vertical curves using real field survey scenarios for attendees to solve. It is recommended that attendees have the math skills of Math 301 prior to taking this course.

(Paraprofessional - No CEUs)

Pack your bags! This years Symposium is located in the vibrant West Texas city of **El Paso**.

Wyndham El Paso Airport Hotel

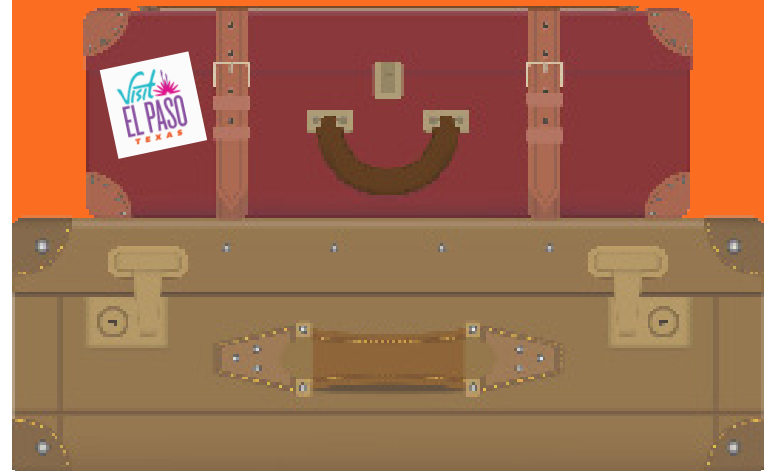
2027 Airway Boulevard | El Paso, TX 79925

Room Rate is **\$98** - includes breakfast for two, free parking, free wifi and complimentary shuttle.

Reservation deadline is **Thursday, February 14, 2019**.

Visit www.tsp.org/SymposiumTravel or call **(715)701-3202** to reserve your room!

No need to rent a car! The Wyndham Hotel is located directly across the street from the El Paso International Airport. Book your flights today for discounted rates.



SYMPOSIUM REGISTRATION

Register online at www.tsps.org/symposium
or mail this form with payment or fax this form with credit card information to:
TSPS | 2525 Wallingwood Dr., Ste 300 | Austin, TX 78746 | Fax: 512-327-7872
(No Phone Registrations Accepted)

Attendee Information

REGISTER EARLY – Late fee applied *Thursday, February 14 and after.*

One form per person. Please print.

First Name _____ Last Name _____
Badge Name _____ Company _____
Address _____ City _____ State _____ Zip _____
Phone _____ Email _____ RPLS or PE # _____

Registration Fees (does not include hotel or meals)

*Licensed professionals may not register as a paraprofessional attendee.
Must be a current TSPS member to receive member discount.*

	Member		Non-Member	
	By Feb. 13	Feb. 14 & after	By Feb. 13	Feb. 14 & after
<input type="checkbox"/> RPLS 2 days	\$275	\$375	\$375	\$475
<input type="checkbox"/> RPLS 1 day	\$210	\$310	\$310	\$410
<input type="checkbox"/> Paraprofessional 2 days (no CEUs/PDHs)	\$120	\$195	\$170	\$245
<input type="checkbox"/> Paraprofessional Full or 1/2 day (no CEUs/PDHs)	\$65	\$140	\$115	\$190

Special Assistance Required?
Check box

Cancellation Policy

Refunds minus \$50 administrative fee will be made if faxed or written notice is received by Thursday, February 21.

Education Sessions (All class sizes are limited – REGISTER EARLY!)

Friday, March 1

- 8:00 am – 12:00 pm “Hot Topics” in Surveying: A Panel (4 CEUs, includes 4 hrs of Ethics/Rules)
- 1:00 pm – 5:00 pm Texas Oil & Gas: Surveying Upstream (4 CEUs)
- 1:00 pm – 5:00 pm Business Metrics (4 CEUs, includes 4hrs of Rules)

Saturday, March 2

- 8:00 am – 12:00 pm Land Descriptions: Preparation, Analysis & Perpetuation (4 CEUs)
- 8:00 am – 12:00 pm Searching for the Truth: Texas Boundary Law Applied (4 CEUs, includes 4 hrs of Ethics)
- 8:00 am – 12:00 pm Study Group for RPLS Candidates (Paraprofessional - No CEUs)
- 8:00 am – 12:00 pm Survey Math 101 (Paraprofessional - No CEUs)
- 8:00 am – 12:00 pm Survey Math 301 (Paraprofessional - No CEUs)
- 1:00 pm – 5:00 pm Surveying: A Learned Profession (4 CEUs, includes 4 hrs of Ethics)
- 1:00 pm – 5:00 pm Boundary Retracement, Rules & Applications (4 CEUs, includes 4 hrs of Rules)
- 1:00 pm – 5:00 pm GLO Working Sketch Preparation (4 CEUs)
- 1:00 pm – 5:00 pm CST Exam Prep Course (Paraprofessional - No CEUs)
- 1:00 pm – 5:00 pm Survey Math 401 (Paraprofessional - No CEUs)

Payment: Check # _____ made payable to **TSPS** VISA MC AMEX DISCOVER

Card # _____ CVV _____ Exp Date _____

Name of Cardholder _____ TOTAL _____

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Online Registration closes Sunday, February 24, 2019.

Payments made to TSPS are not deductible as charitable contributions, however, they may be deducted as a trade or business expense. Consult your tax advisor.