TSPS 2020 Symposium

Thursday, February 27 3:00 pm - 7:00 pm | Registration

Friday, February 28

7:00 am - 5:00 pm | Registration

8:00 am - 12:00 pm

Survey Procedures for Construction Layout

Speaker: George Forbis-Stokes, RPLS

Construction staking and the procedures necessary to be successful are covered extensively in this course. Using real life examples, group interaction, question and answer sessions, facilitated discussions and hands on problem solving activities, attendees experience the process of working through each phase of a construction staking project.

Session Offered in the Morning or Afternoon (4 CEUs)

8:00 am - 12:00 pm

Some Elements of Texas Boundary Surveying

Speaker: Michael Hoover, RPLS, LSLS, CFM

This course will cover an overview of the history and development of the Texas State boundary lines with a focus on the linkage and influence of the history to modern Texas Boundary surveying. In addition there will be an overview and discussion of several key Texas Boundary decisions: Stafford v. King; Turner v. Smith; Standefer v. Vaughn; Motl v. Boyd; Manry v. Robison. Mr. Hoover will cover three interesting modern day boundary problems to exam and discuss.

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

8:00 am - 12:00 pm

"Hot Topics" in Surveying: A Panel
Moderator: Shane Neally, RPLS
Panel: Connor Brown, RPLS, PLS; Josh W. Leamons, RPLS, ESQ.; Stan Piper, RPLS, PLS, LSLS; & Heather Sides, RPLS, PLS, CFedS 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 4hrs of Ethics/Rules)

Noon – 1:00 pm | Lunch On Your Own

1:00 pm - 5:00 pm

Survey Procedures for Construction Layout

Speaker: George Forbis-Stokes, RPLS

Construction staking and the procedures necessary to be successful are covered extensively in this course. Using real life examples, group interaction, question and answer sessions, facilitated discussions and hands on problem solving activities, attendees experience the process of working through each phase of a construction staking project.

Repeat of AM session (4 CEUs)

1:00 pm - 5:00 pm **Water Boundaries**

Speakers: Bill O'Hara, RPLS, LSLS & Bill Merten, RPLS, LSLS

In the course of four hours Mr. O'Hara and Mr. Merten will discuss the many aspects of developing a complete and lawful survey of both Riparian and Littoral boundaries. These points will be discussed as follows:

Riparian Boundaries:

- a. History of ownership to streams in Texas
- b. Instructions to the Pioneer Surveyors re: streams
- c. Definition of Terms
- d. Case Law Pertinent landmark cases
- e. Statutory law
- f. Gradient Boundary
- g. Small Bill

Littoral Boundaries:

- a. Original surveys along the Gulf coast
- b. Mean High Water or Mean Higher High Water?
- c. Case law supporting the methodology
- d. Coastal Boundary Surveys per 33.136 NRC
- e. Definition of Terms

(4 CEU's)

1:00 pm - 5:00 pm **Professional Ethics**

Speakers: Shane Neally, RPLS & Connor Brown, RPLS, PLS This course will cover the realm of professional ethics for surveyors and engineers as laid out and defined in the "TSPS Canon of Ethics" Students will explore the impact of ethics on the surveying profession and the world, while studying specific examples of how individual surveyors can positively impact their profession. Routines and rituals that will help keep ethics at the forefront of decision making will be determined and evaluated. Then students will learn how to examine their everyday intentions and execution of thoughts as they apply to or affect their ability to fully engage in ethical and professional behavior with every client and business situation.

(4 CEUs, includes 4hrs Ethics)

1:00 pm - 5:00 pm

Subdivision Plats: Requirements, Best Practices, & Exemptions Speakers: Stan Piper, RPLS, PLS, LSLS & Josh W. Leamons, RPLS,

Mr. Piper and Mr. Leamons, in the course of four hours, will cover and explain the necessary information you will need to develop complete and lawful Subdivision Plats. The points to be covered are:

- 1. The state law regarding subdivision regulations which dictate what the cities and counties can regulate, and what platting exemptions are available.
- 2. Review the Extraterritorial Jurisdiction (ETJ) and the affect it has on platting.
- TBPELS board rules and ethical requirements connected to platting and the depiction of the boundary.
- 4. Common regulations and requirements of various counties and cities in Texas.
- 5. Examine plats from around the state and discuss issues.
- Discuss restrictions & zoning issues.
- 7. Explain the methods for correcting errors on plats.
- 8. Review abandonment of easements and roads.
- 9. Discuss how using the wrong words on a subdivision plat can create title issues. Topics to include Final Plat v. Replat & Amending Plat, and Vacating Plats.

(4CEUs, includes 4hrs Ethics/Rules)

Meet & Greet - An Evening Full of Fun and Surprises! Hosted by TSPS Chapter 20 - Brazos Valley Open to all attendees.

We are are taking this years Symposium back to where it all began, College Station! Make sure to reserve your room today.

> Texas A&M Hotel & Conference Center 177 Joe Routt Blvd | College Station, TX 77840 Room Rate is \$119 single/\$129 double includes free self-parking and free wifi. Reservation deadline is Thursday, February 6.

Visit www.tsps.org/Symposiumhotel or call (888)654-4436 to reserve your room!

Thank You Symposium Sponsors:

Advanced Geodetic Surveys, Inc. ANCO Insurance AllTerra Central, Inc. **Conrad Blucher Institute** Geomatic Resources, LLC LJA Surveying, Inc. **Proven Surveying TSPS Chapter 4 - East Texas**

To sponsor the 2020 Symposium, please contact Brenda Null at BrendaN@tsps.org or 512-327-7871.

Classes & Events

Saturday, February 29 7:00 am - 2:00 pm | Registration

8:00 am - 5:00 pm

Everyday Use of Texas State Plane Coordinates

Speakers: Jim Gillis, RPLS, NSLS, CLS & Jamie Gillis, RPLS, PLS Working in a State Plane Coordinate System every day is one thing, but fully understanding its origin, organization, and mathematics is key to maximizing your time, resources and ROI. By the end of this seminar attendees will be able to discuss the origin and purpose of Coordinate Systems in land surveying, list the four relevant surfaces and explain their relationship, identify and associate the mathematical parameters for the five zones, calculate a distance applying the combined scale factor, and demonstrate the benefits of the use of State Plane Coordinates in everyday surveying. Participants will engage in peer interaction, hands-on activities, informative illustrations, and facilitated discussions throughout the seminar to create a comprehensive and useful learning experience of the use and benefits of Texas State Plane Coordinates. Attendees should bring a scientific calculator and be familiar with its operation.

Attendees MUST attend both AM and PM sessions for CEUs (8 CEUs)

8:00 am - 12:00 pm

Leadership and Strategy: A Framework for Success

Moderator: Josh W. Leamons, RPLS, ESQ.

Panel: TBD

This course will examine what makes a good leader in the workplace, and will discuss leading different generations in a way that is ethical and provides the desired firm culture necessary for employee retention. In this course we will also examine business strategies that help firms thrive. We will look at long-term and short-term goals and strategic positioning in order to be stand out from the crowd. All topics will be discussed together with rules, best practices, and ethical considerations.

(4 CEUs, includes 3hrs Ethics)

8:00 am - 12:00 pm

Study Group for RPLS Candidates Speaker: Jason Jernigan, RPLS

Are you pursuing an RPLS license in Texas? Then plan to participate in this study session for RPLS candidates with Jason Jernigan, RPLS. 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. It is suggested attendees bring an NCEES-approved 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 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)

8:00 am - 12:00 pm Survey Math 301

Speakers: Aaron Ferguson, RPLS & Heather Sides, RPLS, PLS, CFedS This seminar serves 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

Boundary Retracement, Rules & Applications Speakers: Paul Carey, RPLS, LSLS & Stephanie Prosser

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, 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, 4 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)

1:00 pm - 5:00 pm

GLO Working Sketch Preparation

Speakers: Jason Jernigan, RPLS & Mark Neugebauer, RPLS, LSLS Matters related to preparing, compiling, and drafting a working sketch of original land grant surveys derived from the original field notes and record information contained within the archive files/records of the Texas General Land Office (GLO) will be discussed, demonstrated, and practiced. These include but are not limited to GLO format and content standards used to create a working sketch suitable for official filing in the records of the GLO to support a surveyor's position in response to requests for Patents, Corrected Patents, Deeds of Acquittance, or Vacancy Applications. The importance of a working sketch to assist surveyors in performing a boundary retracement survey involving multiple original land grants and/ or multiple deeded tracts will be emphasized. (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)

Thank you to the following donors for their generous grant.







TSPS 2020 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)

One form per person. Please print.	REGISTER EA	RLY – Late fee applied <i>Thur</i>	sday, February 6 and after.
First Name	Last Name	<u> </u>	
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Registration Fees (does not include ho Licensed professionals may not register as a paraprofessio Must be a current TSPS member to receive member disce	nal attendee. Member ount. By Feb. 5 Feb. 6 & after	Non-Member By Feb. 5 Feb. 6 & after	Special Assistance Required? Check box
□ RPLS 2 days	\$320 \$420	\$420 \$520	
□ RPLS 1 day	\$210 \$310	\$310 \$410	Cancellation Policy Refunds minus \$50
Paraprofessional 2 days (no CEUs/PDHs		\$210 \$285	administrative fee will be
☐ Paraprofessional 1 day (no CEUs/PDHs)	\$85 \$160	\$135 \$210	made if faxed or written notice is received by
Education Sessions (All class sizes	are limited – REGISTER EAR	_Y !)	Wednesday, February 19.
□ 8:00 am − 12:00 pm □ 8:00 am − 12:00 pm □ 1:00 pm − 5:00 pm □ 8:00 am − 12:00 pm □ 1:00 pm − 5:00 pm	cedures for Construction Layents of Texas Boundary Surveins Surveying: A Panel (4 CE cedures for Construction Laydaries (4 CEUs) I Ethics (4 CEUs, includes Plats: Requirements, Best Foldes 4hrs Ethics/Rules) se of State Plane Coordinate Strategy: A Framework for for RPLS Candidates (Paran 101 (Paraprofessional - National Company of Sketch Preparation (4 CE Prep Course (Paraprofessional - National Course (Paraprofessional	veying (4 CEUs, includes iUs, includes 4 hrs of Etlout (4 CEUs) (Repeat of AM substitution of Ethics) Practices & Exemptions es (8 CEUs) Success (4 CEUs, includes aprofessional - No CEUs) To CEUs) To CEUs) To CEUs) To CEUs) To CEUs) To CEUs)	4hrs of Ethics/Rules) nics/Rules) Session) des 3hrs Ethics)
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