

# 60<sup>th</sup> ANNUAL MEETING

OF THE  
MISSOURI SOCIETY OF PROFESSIONAL SURVEYORS

RAMADA PLAZA HOTEL  
& OASIS CONVENTION CENTER  
OCTOBER 19-21, 2017

## SPEAKERS

Dick Elgin, PLS, PE, PhD  
Mike Freeman, PLS  
Ronnie Heimbaugh, PLS  
Jim Martin  
Jim Mathis, PLS, PE  
Joseph V.R. Paiva, PhD  
Carol Payne  
Bob Shotts, PLS  
Pat Stack  
Harry Styron, JD  
Jason Taylor  
Jan VanSickle  
Danny White, LtCol, USMC (Ret.)  
Mark Woodward  
Mike Zahner, PLS

## PLANNING COMMITTEE

*Joe Clayton, Dan Govero, Suzanne Daniel, Brian Viele, Steve Nelson, Mike White,  
Paul Taylor, Rick Black and Kevin Lambeth*



# THURSDAY, OCTOBER 19, 2017

7:00 am Registration and Continental Breakfast

8:00-5:00 pm Hospitality Room

8:00-10:00 am **CONCURRENT SESSIONS**

## **How to Ensure Quality Surveying and Mapping with Drones**

Unmanned Airborne Systems (UAS) or drones have become the vogue because they are often viewed as toys and thus simple and easy to operate. For surveyors this leads to incorrect assumptions about "automatic" high quality results from flights that are done to accomplish a surveying and mapping goal. This webinar points out some of the areas of UAS selection, operation and photo processing that requires technical knowledge and professional judgment to design a process to meet a specific surveying and mapping goal. The content of this course is derived from the dissertation research and results of James Peterson, PhD, who recently completed his degree at Missouri University of Science and Technology.

*Joseph V.R. Paiva, PhD, GeoLearn, LLC*

## **Original Field Notes & Plats**

Why a review of past surveyors' field notes is invaluable in the resolution of today's boundary problems. In the high-tech world of modern land surveying, we sometimes get caught up in measuring gadgets, coordinate systems, statistics and proportional measure, but fail to go back to the basics of how the controlling corners were established, and where common sense tells us they should be. There is often a world of information in those old notes, but where do we get them and how do we decipher all those strange squiggles? Or, how was I supposed to know that flat rock over there was the corner?

*Jim Mathis, III, PLS, Mathis & Associates*

10:00-12 noon **CONCURRENT SESSIONS**

## **How to Ensure Quality Surveying *continued***

## **The Basics: Safety Essentials for Surveying Companies**

This high-energy session is perfect for anyone wishing to improve crew and company safety! Participants will learn basic and proven solutions for reducing injury risk. We'll split safety management programs into two major halves, and learn a new way to view accidents. Participants will learn how to implement simple steps that can make a positive impact on employee safety.

*Mark A. Woodward, Sr. Safety and Risk Trainer, Missouri Employers Mutual*

12-1:00 pm Luncheon

12:30 pm Golf Tournament at Greene Hills Country Club

1:00 pm Clay Shoot Tournament at Ozark Shooters Sports Complex  
(Contact MSPS for more information)

1-3:00 pm **CONCURRENT SESSIONS**

## **Surveying Standards**

The Missouri Standards for Property Boundary Surveys are the rules, promulgated jointly by the Missouri Department of Agriculture Office of the State Land Surveyor and the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors, and Landscape Architects, that regulate the practice of land surveying. The new version of the standards is scheduled to become effective July 2017. This presentation will review the new standards and summarize changes made to the previous version.

*Ronnie Heimbaugh, PLS, Missouri Dept. of Agriculture*

## **Easements from the Title Company Perspective...More Than You Really Want to Know**

Black's Law Dictionary defines an easements as: "The right of use over the property of another". In this segment we will look at the various types of easements; how they come to exist and what impact the easement has on the property being surveyed.

*Mike Freeman*

3-5:00 pm

## CONCURRENT SESSIONS

### GLO Fractional and Anomalous Sections

This session will deal with how fractional and anomalous sections are protracted and their relation to the GLO plats and notes.

*Bob Shotts, PLS, Robert S. Shotts, Inc.*

### How to Use the Land Survey

### Repository's Databases for Research

How to make the Land Survey Databases work for you.

*Carol Payne, Land Survey Program*

5:00 pm

Exhibitor Set-Up

# FRIDAY, OCTOBER 20, 2017

7:00 am

Registration and Continental Breakfast

8:00-5:00 pm

Hospitality Room

8:00-10:30 am

**Business Meeting & Election of Officers and Directors**

11:00-12 noon

### Leadership Keynote

Have you become who you were born to be? This leadership keynote will encourage and equip you to do so. The first 100 registrants will receive a copy of Danny White's book "A Widower's Walk: From Desert to Destiny."

*Danny White, LtCol, USMC (Ret.), Founder/Owner, Lead with Liberty*

12-1:30 pm

Awards Luncheon

1:30-5:30 pm

### Missouri Riparian Boundaries

Riparian boundaries bring consternation to the surveyor, confoundment to attorneys and confusion to the courts. The proposition of shifting boundaries and shifting law are not embraced by we surveyors who seek definiteness in the lands we survey (as do our clients). This seminar bring firmness (not definiteness) to Missouri riparian boundaries.

*Dr. Dick Elgin, PLS*

### Missouri Water Law

*Attorney Harry Styron, Ozark, MO*

5:30 pm

Reception with Exhibitors

6:30 pm

BBQ Dinner Buffet

7:30 pm

Texas Hold 'em Tournament

(Buy in of \$20, chips will be provided, 3-Place Cash Payout)

## TELEVISION DRAWING

All pre-registered attendees will be entered into a TV drawing.  
One TV will be given away each day of the Annual Meeting.

# SATURDAY, OCTOBER 21, 2017

7:00 am Registration and Continental Breakfast with Exhibitors

8:00-10:00 am **CONCURRENT SESSIONS**

**GPS Modernization & GNSS**

The configuration of the GPS Space Segment is well-known. A minimum of 24 GPS satellites ensure 24-hour worldwide coverage. But today there are more than that minimum on orbit. There are a few spares on hand in space. The redundancy is prudent. GPS, put in place with amazing speed considering the technological hurdles, is now critical to all sorts of positioning, navigation and timing around the world.

*Jan VanSickle, PhD*

**Grid to Ground: What it is and How to Use it**

State Plane Grid coordinates are a great tool for geo-referencing points in plane system. The problem with the State Plane Grid system is that it introduces varying distortion into map resulting in distance errors. This problem can be solved by using a local Grid-to-Ground factor. This class will cover the background of the State Plane Grid System, the inherent errors in the system, and the differences between Grid and Ground. We will also go over how to use and enter Grid to Ground parameters in Topcon Magnet, Carlson SurvCE, Trimble Access, and Spectra Precision Survey Pro.

*Jim Martin, Topcon Solutions*

10:00-10:15 am Break

10:15-12:15 pm **CONCURRENT SESSIONS**

**GPS Modernization & GNSS continued**

**Combining Survey, GIS, CAD LIDAR and Imaging Technologies to Increase Productivity, Profitability and Performance**

The Seiler Instrument Geospatial team will present and explain the benefits of combining Surveying Technology Solutions with Mapping GIS software, CAD Design Software & Imaging and LIDAR technology in order to offer additional professional services to a broader base of customers like utilities, Construction Companies, etc. Also explain the internal benefits of using GIS software to manage legacy Surveys. *Pat Stack, Seiler Instrument & Mfg. Co., Inc.; Jason Taylor, Seiler Instrument & Mfg. Co., Inc.*

12:15-1:00 pm Luncheon

1:00-3:00 pm **CONCURRENT SESSIONS**

**Best Practices for GPS Today**

Most, not all, GPS surveying relies on the idea of differential positioning. The mode of a base or reference receiver at a known location logging data at the same time as a receiver at an unknown location together provide the fundamental information for the determination of accurate coordinates. Now, the most commonly used methods utilize receivers on reference stations that provide correction signals to the end user via a data link sometimes over the Internet, radio signal, or cell phone and often in real-time. Real-time kinematic (RTK) has become routine in development and engineering surveys where the distance between the base and roving receivers can most often be measured in thousands of feet.

*Jan VanSickle, PhD*

**Modern Geospatial Data Generation**

The generation of topographic mapping data has historically been accomplished through the use film based aerial cameras and large stereoscopic plotting devices. This presentation will focus on the sensors being used today by photogrammetry firms to produce geospatial data. Project examples will address the best systems to utilize for a given product and how to best combine data from multiple source systems. Sensors addressed in the presentation will include digital aerial sensors, aerial LiDAR sensors, UAS, mobile mapping LiDAR and terrestrial LiDAR systems. *Steven M. Kasten, CP, PLS, PSM, Surdex Corporation*

3:00-3:15 pm Break

3:15-5:15 pm **CONCURRENT SESSIONS**

**Best Practices continued**

**Lessons Learned from a Small Company's Evolution into the Virtual World of 3D with Laser Scanning and Mobile LIDAR**

*Mike Zahner, PLS, Zahner & Associates*

# SPEAKERS

**Dr. Dick Elgin, PLS**, a second-generation surveyor, was raised in his late father's surveying business in Rolla, Missouri. After serving meritoriously as an Army helicopter pilot in Vietnam (1969), he received the degrees BSCE and MSCE from the Missouri University of Science and Technology (MS&T), and his PhD from the University of Arkansas. Formerly an Assistant Professor, he now is Adjunct Professor of Civil Engineering at MS&T. Semi-retired, he works part-time for Archer-Elgin Surveying and Engineering, LLC of Rolla. Dick authored *The U.S. Public Land Survey for Missouri*. Dick also wrote *Shoulda Played the Flute*, a memoir of his year flying helicopters in Vietnam (available on Amazon). Dr. Elgin is a past president of MSPS, and was editor of *Missouri Surveyor* for many years. He is a member of MSPS, Chi Epsilon, Tau Beta Pi, Surveyors Historical Society, MS&T and the University of Arkansas' Academy of Civil Engineers, and the MS&T Order of the Golden Shillelagh. He is a past member of the Missouri Board for Architects, Professional Engineers, Professional Surveyors and Professional Landscape Architects. He is licensed in several states.

**Mike Freeman, PLS**, has operated 'Freeman Land Survey' since 1987 where he is the owner and principal of the business located in Hermitage, Hickory County, Missouri. Mr. Freeman holds degrees in both Business Administration and Accounting from Drury University along with numerous hours of surveying coursework from Missouri State University (formerly SMSU), University of Missouri at Columbia and at Rolla (now S&T). In conjunction with his surveying business Freeman owns and operates 'Bentley Title Co.' a land title and abstract company in Hermitage, MO and holds a Title Insurance Agent license. Freeman was appointed to the Survey Division of the State Board for Architects, Professional Engineers, Professional Land Surveyors and Professional Landscape Architects in 2007 and was selected as Chairman of the Division in 2010 and has been re-elected to that position in 2012, 2014 and 2016.

**Ronnie Heimbaugh, PLS**, is the Field Surveys Section Chief in the Missouri Department of Agriculture's Land Survey Program. Heimbaugh earned a Bachelor of Science degree in Industrial Technology from the College of the Ozarks in 1990 and later attended surveying courses at the University of Missouri - Rolla (now known as Missouri University of Science and Technology). Currently, Heimbaugh serves as a director for the Missouri Society of Professional Surveyors and a member of their Standards Committee. He has worked in the civil engineering and land surveying field for more than 25 years, gaining licensure in 2004.

**Steven M. Kasten, CP, PLS, PSM**, has over 34 years experience in the photogrammetric mapping industry having worked for the DoD and in private industry. He has developed software tools for the geospatial exploitation of satellite and aerial sensor systems. He has also designed and managed several hundred large scale geospatial mapping projects during this time. He currently is responsible for designing and implementing all aerial mapping projects within Surdex. These projects include data from digital aerial sensors, aerial LiDAR sensors, UAS and terrestrial scanning systems. Steve Kasten is a licensed land surveyor in 5 states and an ASPRS Certified Photogrammetrist.

**Jim Martin** has been involved in the Land Surveying supply industry since starting at Griner and Schmitz in 1996. Since then he has worked as a field salesperson and General Manager and is now the Branch Manager for the Topcon Solutions Store in Kansas City. Jim has been factory trained in many different products and software including Topcon Magnet, Carlson Survey and SurvCE, Javad Pinnacle,

Ashtech, Tripod Data Systems Survey Pro, and Bentley GeoPak. His most rewarding training has come from working in the field with Land Surveyors.

**Jim Mathis, PLS**, is a Professional Land Surveyor and Professional Engineer licensed in the states of Missouri and Arkansas. He graduated from the University of Missouri, Columbia in 1975, with a B.S. degree in Civil Engineering, and has been owner and operator of Mathis and Associates, a surveying/engineering business which specializes in cadastral surveying and civil design projects, for 37 years. Jim is a past member of the Missouri Board for Architects, Engineers, Land Surveyors, and Landscape Architects, and a recipient of the Missouri Surveyor of the Year and the Robert E. Myers Service awards. He considers his best professional achievement to be the registration of over 3,900 corners of the U.S. Public Land Survey System.

**Dr. Joseph V. R. Paiva, PS, PE**, is CEO of GeoLearn, an online education company specializing in education using video rather than PDFs. He has worked as a consultant to developers and manufacturers of surveying instrumentation and software, law firms and educational institutions. He has technical, general and executive management experience in civil engineering, mapping/GIS and surveying consulting firms and companies that develop products for the geospatial market such as Sokkia, Gatewing and Trimble. Due to his Gatewing experience, his interest in unmanned airborne systems (drones) continues; he is an FAA licensed Remote Pilot. Dr. Paiva also has considerable experience as an educator, having taught surveying for eleven years at the University of Missouri-Columbia, as well as performing adjunct online teaching duties at the Missouri University of Science and Technology, and Texas A&M-Corpus Christi and currently, at the State Technical College of Missouri. Joe has written and presented numerous technical papers, and columns in various industry journals including *POB*, *Civil Engineering* and *The Empire State Surveyor*. Joe has organized or presented innumerable workshops and seminars, and is the sole presenter of a review course for those intending to take the New York state-specific licensing exam. He has been active in several professional organizations, the most notable being service as an ABET commissioner and program evaluator. He is currently on the Unmanned Airborne Systems committee of NSPS and the Education Committee of the Surveying and Geomatics Division of the American Society of Civil Engineers. Joe became president of the Surveying and Geomatics Educators Society in the summer of 2017.

**Carol Payne** is the Repository Section Chief of the Missouri Land Survey Program with the Department of Agriculture. Ms. Payne earned a Bachelor of Arts degree in Psychology/Sociology from Columbia College in 2000 and a 2<sup>nd</sup> Bachelor of Arts degree in Business Administration/Management from Columbia College in 2002. Ms. Payne has been employed by the State of Missouri since 1987 working at Child Support Enforcement, Department of Mental Health, DNR and now Agriculture. Carol has been with the Land Survey Program for 22 years. She has been instrumental in moving the Preservation section into the digital age by working with Recorder of Deeds and Surveyors throughout the state.

**Robert 'Bob' Shotts, PLS**, grew up in eastern Kansas and has for as long as he can remember loved the outdoors. After graduation from high school at Shawnee Mission North, he attended Kansas State University in Manhattan, Kansas. After two years he transferred to

# SPEAKERS

the University of Missouri in Columbia, graduating with a BS in Forestry in 1971. Upon graduation

he was commissioned as an officer in the US Navy and saw the world, including a tour in Vietnam in 1972. Upon completing his active duty commitment, he returned to the Midwest and once again attended Kansas State University doing graduate work in Landscape Architecture. He worked as a Landscape Architect and Planner for the City of Lee's Summit, Missouri for three years and then moved to Lebanon, Missouri. After working for Barton Engineering in Lebanon, Missouri for 13 years, he started his own company in 1994. In 2000 he, Ralph Riggs and Craig Ruble founded Ruble, Riggs & Shotts. Both companies continue today. He has served as president of MSPS and is the recipient of the Robert E. Myers Service Award (2005) and MSPS Surveyor of the Year (2001). He currently serves as the chairman of the Landscape Architectural Division of the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors and Professional Landscape Architects.

**Pat Stack** has over nineteen years' experience with 3D scanning, Civil and Surveying sales and support for Seiler Instrument Company. Pat has attended and successfully completed several Trimble 3D Laser training seminars at Trimble Navigation headquartered in Westminster Colorado. Additionally, Pat Stack has presented at several regional Land Survey Conferences such as Missouri Society of Professional Land Surveyors, Illinois Professional Land Surveyors as well as Professional Surveyors Association of Nebraska. Pat specializes in field data collection which helps customer streamline their processes and also guides clients in the most efficient use of their equipment and software. Prior to joining Seiler, Pat had over ten years in civil engineering drafting experience utilizing AutoCAD, Softdesk and Land Desktop. Pat has assisted in numerous onsite 3D Scanning analyses with several local and regional firms such as Fred Weber, Thouvenot Wade and Moerchen, Woolpert, David Mason and Associates, and MoDOT.

**Harry Styron** practice comprises several aspects of local government law, real estate law and business law. In addition to acting as city attorney for Branson West, Mr. Styron acts as special counsel to other cities on zoning matters, represents several real estate developers and lenders. He assists buyers and sellers in commercial real estate transactions and prepares documents for real estate developments of varying complexity. His blog, "Ozarks Law & Economy," reports on legal and economic developments affecting life in the Ozarks. Mr. Styron has prepared subdivision covenants for more than one hundred subdivisions and more than forty condominiums. Mr. Styron was born in Vinita, Oklahoma in 1952, and moved to Granby, Missouri, as a small child, where his parents operated an LP-gas and heating company. He received a bachelor's degree in economics in 1975 from the University of Missouri-Columbia. He attended law school at the University of Tulsa, graduating in 1982. For three years, he worked as a municipal bond attorney for a Tulsa law firm, and had significant responsibility for more than 40 bond issues in several states. From 1986 to 1992, Mr. Styron engaged in the general practice of business and real estate law in Tulsa, and was active in real estate, commercial and aviation defense litigation in state and federal courts in Oklahoma and several other states. Mr. Styron moved to Taney County, Missouri in 1992, and worked as a real estate broker, condominium manager, and real estate developer before returning to the practice of law in 1999 and establishing The Styron Law Firm in 2000, which became Styron & Shilling in 2004. Mr. Styron is a member of the Missouri Bar (Local

Gov't and Property Law committees), the Springfield Metropolitan Bar Assn and the Taney County Bar Association. He was chair of the Missouri Bar's Property Law committee for several years and was the program chair of the Missouri Bar's Annual Real Estate Institute in 2007, 2008, 2009 and 2010. He is a frequent speaker at seminars on municipal finance, planning and zoning, condominium, and real estate development law.

**Jason Taylor** is a terrestrial scanning expert and geospatial sales professional for Seiler Instrument out of our Kansas City/Belton Office. Previously, Jason worked at Wilson & Company's Survey Geospatial and Remote Sensing Division. He has over 14 years of surveying experience, including over 7 years of experience with a variety of laser scanning applications. Jason has completed a wide range of 3D laser scanning projects including geotechnical hazard analysis, dam deformation studies, and dozens of bridge surveys. Jason is our Western Indoor Mobile Mapping Sales Professional for our TIMMs cart mobile mapping system and also for our GeoSLAM product line. He works closely with clients in many industries, helping them use 3D laser scanning to increase productivity.

**Jan VanSickle, PhD**, has many years experience advising global companies (Anadarko, IHS Energy, Microsoft, Jeppesen, Digital Globe, and many more) in geospatial matters. He has created and led departments, managed creation of new programs, and developed systems used around the globe. He earned his PhD in geospatial engineering from the University of Colorado and is a Senior Lecturer at Penn State University.

**Danny White, LtCol, USMC (Ret.)** is a proud graduate of the Class of 2015 Missouri Chamber of Commerce's Leadership Missouri program. Danny White is wired with a teacher's heart and has a passion to encourage other leaders along their journeys. He desires to be a channel, and not a dam, with the wisdom he's picked up from over twenty-five years studying leadership, loving his wife Nora, and parenting their eight children who keep him young at heart and ever-learning. As a Marine Corps combat engineer, Danny led diverse units of various sizes, up to 600+ Marines and Sailors. His final assignment was at the Pentagon serving on The Joint Staff in the J-3 Operations Directorate, integrating the interoperability efforts of seven nations. After retiring in 2012 as a Lieutenant Colonel, Danny founded Lead with Liberty, for Calling #2.

**Mark A. Woodward** is the Senior Safety and Risk Trainer at Missouri Employers Mutual. In this role, he is responsible for conducting MEM employee and policyholder training, including customized training for associations, safety conferences and business groups. Prior to MEM, Mark was the Safety and Training Manager at MidwayUSA in Columbia, MO. In this role, he was responsible for managing all workers compensation operations, general industry/construction safety and training for MidwayUSA's employees. Mark has a bachelor's in Safety Management from the University of Central Missouri and a master's in Education from William Woods University. He is a certified through both the University of Missouri and Association for Talent Development.

**Mike Zahner, PLS** is licensed in Missouri and Illinois. Mr. Zahner brings with him more than 30 years experience in the surveying business. He is a past president of Missouri Society of Professional Surveyors, as well as the past president of the Missouri Association of County Surveyors. He is an active member of the Missouri Society of Professional Land Surveyors Association and the National Society of Professional Surveyors.

# REGISTRATION FORM

Name \_\_\_\_\_ RLS # \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/State/Zip \_\_\_\_\_  
 Phone \_\_\_\_\_ Email \_\_\_\_\_

## MSPS Member Convention Registration Fees

<b>Member Registration - 3 Days</b>	<b>\$330.00</b>	\$ _____
Thursday Only	\$110.00	\$ _____
<i>Thursday AM/PM Only (circle one)</i>	\$55.00	\$ _____
Friday Only	\$110.00	\$ _____
Saturday Only	\$110.00	\$ _____

## Concurrent Sessions

### THURSDAY

**8:00-10:00 am**  
 Quality Surveying  
 Original Field Notes

**10:00-12:00 noon**  
 Quality Surveying  
 Workplace Safety

### **1:00-3:00 pm**

Minimum Standards  
 Easements

### **3:00-5:00 pm**

Odd Sections  
 How to Use LSP

### SATURDAY

**8:00-10:00 am**  
 GPS Modernization  
 Vendor Update: Griner

**10:15-12:15 pm**  
 GPS Modernization  
 Vendor Update: Seiler

**1:00-3:00 pm**  
 Best Practices  
 Vendor Update: Surdex

**3:15-5:15 pm**  
 Best Practices  
 Vendor Update: Zahner

## Non-Members

<b>Non Member Registration - 3 Days</b>	<b>\$550.00</b>	\$ _____
Thursday Only	\$200.00	\$ _____
<i>Thursday AM/PM Only (circle one)</i>	\$100.00	\$ _____
Friday Only	\$150.00	\$ _____
Saturday Only	\$200.00	\$ _____

## Optional Activities

<b>Golf</b> (Includes Cart & Two Mulligans)	<b>\$85.00</b>	\$ _____
<i>Golf Sponsor</i>	\$100.00	\$ _____
<b>Clay Shoot</b> (Includes 50 targets)	<b>\$60.00</b>	\$ _____
<i>Clay Shoot Station Sponsor</i>	\$200.00	\$ _____
<b>Friday Night BBQ Buffet Dinner</b>	<b>\$25.00</b>	\$ _____
<b>Texas Hold 'em Tournament</b>	<b>\$20.00</b>	\$ _____

**Sub-Total** \$ \_\_\_\_\_

10% Surcharge for Late Registration (After 10/1) \$ \_\_\_\_\_

**Grand Total** \$ \_\_\_\_\_

## Payment Information

Charge my Credit Card     Check Enclosed     Invoice my Organization

Credit Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_ CVV Code \_\_\_\_\_

Mail Registration Form with payment to MSPS, PO Box 1342, Jefferson City, MO 65102 or fax to 573-635-7823.

**Registration Deadline is October 7, 2017**

**REGISTRATION INFORMATION**

Registration fee is \$330 for Members and \$550 for Non-Members. The deadline for registrations is October 7, 2017. After this date, a 10% processing fee will be added to all registration fees. The fee includes instructional materials, refreshment breaks, a luncheon each day(3), a cocktail reception and three continental breakfasts.

To register, complete the attached registration form and mail, fax or email it with your payment to MSPS.

**MSPS**  
**PO Box 1342**  
**Jefferson City, MO 65102**  
**Fax: 573-635-7823**  
**mmps@missourisurveyor.org**

For more information on this course, please call Sandra Boeckman at 573-635-9446.

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**GOLF TOURNAMENT**

The Golf Tournament benefitting the MSPS Scholarship Fund will be held at Greene Hills Country Club.

You may pick a partner or a foursome. If you do not have a partner, one will be provided to you. The format is a four-person scramble with a shotgun start.

The cost is \$85 per person and includes 18 holes, a cart and two mulligans.

**Greene Hills Country Club**  
**8702 W. US Highway 160**  
**Willard, MO 65781**

**CLAY SHOOT**

The 5 Stand Sport Clay Shoot benefitting the MSPS Scholarship Fund will be held at Ozark Shooters Sports Complex. A Henry 22 Rifle will be raffled off in collaboration with the clay shoot fundraiser. The clay shoot will consist of 50 targets. 50% of the registration fees will go to pay for 1st, 2nd and 3rd place prizes. Shoot will start at 1 pm and a box lunch will be provided to all participants.

**Ozark Shooters Sport Complex**  
**759 US Hwy 65**  
**Walnut Shade, MO 65771**

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**LOCATION & LODGING**

Ramada Plaza Hotel & Oasis Convention Center, Springfield, MO, is the site for the 2017 Annual Meeting of the MSPS. A special room rate of \$99.00 for single or double rooms has been extended until **September 19, 2017** (includes hot buffet breakfast). Reservations can be made by calling 888-532-4338. Parking is complimentary for all guests and attendees. Ask for the conference special rate and identify yourself with MSPS when making reservations.

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**SPOUSE HOSPITALITY ROOM**

A hospitality room will be provided on Thursday, Friday and Saturday from 8 am to 5 pm. Please see the registration desk for hospitality room location.

**CANCELLATION POLICY**

MSPS reserves the right to cancel the program and return all fees in the event of insufficient registration. A participant may cancel a registration at any time, but a \$25 processing fee will be applied to all refunds.

**NO REFUNDS WILL BE ALLOWED AFTER October 7, 2017.**

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**CONTINUING EDUCATION**

This course has been approved for 21.5 Professional Development Units (PDUs) by the Missouri Board of Architects, Professional Engineers, Professional Land Surveyors and Professional Landscape Architects.

**PDU breakdown on days is as follows:**

**Thursday - 8.0 PDUs**  
**Friday - 5.5 PDUs**  
**Saturday - 8.0 PDUs**

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**FOR MORE INFORMATION**

Contact Sandra Boeckman, MSPS Executive Director, at 573-635-9446.

Please send all registration information to:

**MSPS**  
**722 E. Capitol Avenue**  
**PO Box 1342**  
**Jefferson City, MO 65102**  
**Fax: 573-635-7823**