

PRELIMINARY - MARLS 2018 Pre-Conference & Conference Schedule - RADDISON COLONIAL, HELENA, MT					
DATE	TIME	ACTIVITY	SPEAKER	Room	PDH
2/19/2018	6pm	Kay arrived to unload and start setup	Meadowlark Rm &	Foyer	
2/20/2018	4:00 - 9:00	Conference Registration		Foyer	
2/20/2018	6:00 PM	Hospitality Rooms open		Suite & Helena	
2/20/2018	afternoon	Exhibitor's setup begins	Prefer Tuesday setup	Judicial	
2/21/2018	6:30 AM	Conference Registration opens		Foyer	
2/21/2018	Wed. - Fri.	Spouse Program - Wednesday - Friday (21, 22, 23)			
MARLS Pre-Conference Seminar Wednesday February 21, 2018			Pre-conference with Lunch 12 - 1 Executive/Legislative		
2/21/2018	8:00 - 5:00	Becoming a Certified UAS (drone) Pilot(2 PDH) and FAA Regulations for UAS Operations (2 PDH) & Unmanned Aircraft Systems as Tools for Land Surveyors (4PDH)	George Southard	Capitol/State	8
Abstracts for Educational Sessions by GSKS Associates LLC, George Southard					
<p>FAA Regulations for UAS (drone) Operations (2 hours) - In August 2016 the Federal Aviation Administration (FAA) issued a set of rules allowing commercial operations using Unmanned Aircraft Systems (UAS) for the first time. These rules are designed to allow for the safe integration of UAS into the National Airspace System. Until the release of these new rules, using UAS for any type of commercial activity severely restricted to those who were able to get a special waiver from the FAA. Now with the implementation of 14CFR Part 107 - FAA regulations are in place allowing professionals from Agriculture to Land Surveying and hundreds of other to use this exciting new tool in their work. This session will provide detailed information helping the Surveying and Mapping professional safely and legally use their UAS as a survey tool.</p>					
<p>Unmanned Aircraft Systems (UAS) (drones) as a Tool for Land Surveyors (4 hours) - This session will introduce the implementation of UAS a tool for the Surveying and Mapping professional. As with all new and different technologies, at first there is a lot of excitement and hope, but early enthusiasm often quickly dampens as unforeseen and sometimes costly pitfalls crash the party. In this session we will explore the business opportunities for using UAS as a tool for surveying and mapping. But we will also look into the pitfalls and expose the wide-ranging costs of owning and operating UAS field survey activities. Successful use of this exciting new technology also demands the integration of new disciplines, procedures and processes not common in most land survey operations. This session will introduce the concepts of photogrammetry, handling of massive amounts of digital data, logistics and planning associated with UAS operations.</p>					
<p>Becoming a Certified UAS (drone) Pilot (2 Hours) This presentation is detailed review of the steps needed to qualify for an FAA Remote Pilot Certificate (sometimes referred to a drone pilot's license). In the FAA regulations authorizing the use of Unmanned Aerial Systems (UAS) for commercial (non-recreational) use, provision is made for the certification of UAS operators. This certification includes studying for and passing a Knowledge Test for remote pilots, filing an application for the remote pilot certificate and getting security clearance through the TSA. The objective of this course is to help potential remote pilots negotiate through the many documents, regulations and study materials provided by the FAA.</p>					
2/21/2018	7:00 AM	Conference Registration		Foyer	
2/21/2018	5:30 - 9:00	MARLS Board of Directors dinner meeting followed by MSF BOD meeting		Governor	
2/21/2018	6:00 PM	Hospitality Rooms opens		Suite & Helena	
MARLS CONFERENCE FEBRUARY 22, 2018					
2/22/2018	6:00 AM	Conference Registration		Foyer	
2/22/2018	6:00 - 7:15	Breakfast		Executive/Legislative	
2/22/2018	7:30 - 9:30	Ethics for the Surveyor's Role	John Matonich	Capitol/State	2
<p>As professionals, surveyors are held to a higher standard and are expected to follow a code of ethical conduct and operation. This presentation will examine the elements of this code and how they fit in the surveyors conduct. It will also examine real ethical case situations and discuss why they were or weren't violations of an ethical code.</p>					
2/22/2018	7:30 - 9:30	BPA Right-of-Way Surveys: High Voltage Strip Descriptions	Kelly Miller & Phillip McNinch	Natorium	2
<p>The Bonneville Power Administration (BPA) operates and maintains over 15,000 miles of high-voltage transmission lines, and BPA's Rights-of-Ways stretch across the Pacific Northwest. This presentation will explain what you need to know --- and how to get the information you need --- when surveying a BPA Right-of-Way. The session will explore land descriptions used by BPA to acquire Right-of-Way and assess survey methods used to retrace strip descriptions. This discussion will highlight some unique aspects of BPA Right-of-Way surveys and will show you how to use the records available, both by request and online, to support your survey.</p>					
2/22/2018	9:30 - 11:30	Changes Are Coming - And We Have The Tools To Help	Pam Fromhertz	Capitol/State	2
<p>The new datums are coming! Changes are significant – 5 feet horizontally and nearly 3 feet vertically. In this session Pam will discuss the magnitude of changes and why the new datums. She will provide information on the tools NGS has developed to make your job easier using GNSS, CORS and OPUS. Pam will share details of an extensive field project NGS embarked on during the summer of 2017 in southern Colorado to assist in validating the new vertical datum to be released around 2022. Lots to learn and an opportunity to make sure Montana is getting prepared.</p>					
2/22/2018	9:30 - 11:30	Land Title Insurance Products and Research	Jonathon Ries	Natorium	2
<p>The materials that will be provided will help one know ways to research public records and to help in understanding the ways title insurance and title issues can be used to help with day to day business with their customers.</p>					
2/22/2018	11:30 - 1:45	Color Guard at Lunch and GM Meeting & Installation of Officers		Capitol/State	1
2/22/2018	2:00 - 5:00	Easements and What the Surveyor Should Know	John Matonich	Capitol/State	3

Easement agreements are necessary for temporary trespass onto another's land, waterway or airspace. Although rights of way are the most common, you may need to draft an easement for utilities, encroachment or telephonic communications. There are critical legal issues and practical considerations involved. Whether you are assessing the impact of the easement on property use or finding the most strategic way of obtaining access, this presentation will help. This presentation will cover a number of objectives giving up-to-date information on creating easements, locating and defining their course, preparation of easement descriptions, easement kinds and purpose along with easement reversion. The Professional Surveyor carries a special set of expertise that is used to protect the health safety and welfare of the public. In the practice of boundary surveying, the PLS must consider not only the exact sciences of measurement, but in the inexact art of boundaries. Many times this work must be presented in a court of law to help determine the boundaries of a parcel. This seminar will provide some insight into what may be expected if a surveyor finds him or herself in having to explain their position on a boundary question and how to give their ultimate opinion on that location of said boundaries and why they believe their conclusion to be correct.				
2/22/2018	2:00 - 4:00	Mentoring in the Workplace	Jennifer Anderson	Natorium 2
Mentoring in the Workplace - What every manager needs to know about mentoring and what every employee needs to know about mentoring.				
2/22/2018	4:00 - 5:00	Jim Foster - TBA	Jim Foster	Natorium 1
2/22/2018	5:00 - 6:00	Exhibitor's Reception	No host bar	Judicial
2/22/2018	6:15 PM	Banquet, Awards, MSF Raffles, Games, Silent Auctions & Live Auction	Grand Ballroom	
2/22/2018	6:00 PM	Hospitality Rooms open		Suite & Helena
MARLS CONFERENCE FEBRUARY 23, 2018				
2/23/2018	6:00 - 7:15	Breakfast	Executive/Legislative	
2/23/2018	6:00 - 7:15	MARLS Past Presidents' Breakfast	Take your buffet to the Helena room 2nd floor	
2/23/2018	8:00 - 10:00	Essentials of the MT Quiet Title Action/Heirs Property Partition	Greg Schultz	Capitol/State 2
Presentation 1. ESSENTIALS OF THE MONTANA QUIET TITLE ACTION (or, the mechanics of the Action; issues for the surveyor; assessing the judgment's impact on title; and expecting the unexpected) (1 PDH) Presentation 2. HEIRS PROPERTY PARTITION (including, the mechanics of traditional partition; why breaking up is hard to do -- and expensive; and the Heirs Property Act saves the farm) (1 PDH)				
2/23/2018	8:00 - 10:00	Recruiting Strategies: Techniques to Attract the Right Employees	Jennifer Anderson	Natorium 2
How to attract the right people to your company and leveraging online and in-person techniques to connect with the right candidates.				
2/23/2018	10:00 - 12:00	2017 Land Use Law Legislative Update	Tara DePuy & Kelly Lynch	Capitol/State 2
Participants will learn of changes to mortgage exemptions, final plat review process and the new phased developments laws to assist them in the surveying and representation of their clients.				
2/23/2018	10:00 - 12:00	The Land Surveyor as an Expert Witness	John Matonich	Natorium 2
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2/23/2018	12:00 - 1:00	Lunch		
2/23/2018	1:00 - 3:00	Laser Scanning for Today's Surveyors	Andrew Munson	Capitol/State 2
This program will go over the use of laser scanning and how that can benefit high accuracy surveys. Laser scanning provides a lot more information and much more accurate information than a traditional survey. The program will go over the proper uses of the gear and how to process the data.				
2/23/2018	1:00 - 3:00	AutoCAD Civil 3D Survey Workflow Introduction	Alex Wood	Natorium 2
This session is an introduction to the Civil 3D Survey Tools. We will cover some basics of working with Survey Databases and Automated Linework. Specifically for attendees New to the AutoCAD Civil 3D Survey workflow, the handout will provide step-by-step procedures allowing the attendees to return to work with tools to immediately implement topics discussed. This includes setting up AutoCAD Civil 3D Templates, Styles, and Settings for Survey documentation, setting up for proper line work coding, and automating survey linework directly from field surveys.				
2/23/2018	3:00 - 5:00	UAV's and the Surveyor: Creating Actionable Data	Bill Edmunson	Capitol/State 2
This presentation is a survey of methodology for collecting actionable geo-spatial data for a variety of industries using Unmanned Aerial Vehicles with an emphasis and the resulting data types and how they may be used commercially.				
2/23/2018	3:00 - 5:00	Drone Data, Photogrammetry, Point Clouds, Autodesk Survey Workflow	Nick Turner/Alex Wood	Natorium 2
Drone data is becoming more and more prevalent. This course discusses the Autodesk Survey workflow for processing and using photogrammetry and point cloud data, from drones, using Autodesk Recap, AutoCAD Civil 3D, and Autodesk Inroads products.				
2/23/2018	5:00 - 8:00	MARLS Board of Directors dinner meeting	Governor	