



2024 MARLS Conference

Course Descriptions and PDH credits

Pre-Conference Speakers	Course Description	PDH Credits
Glen Thurow Tasha Huhta Certified Federal Surveyor Bureau of Land Management CFedS Program	Finding the Law -Legal Research for Non-Lawyers This presentation will cover methodologies a surveyor can employ in researching federal and state court cases concerning boundary issues. Not intended to be a substitute to obtaining professional legal advice, the course will equip the surveyor to find and read relevant case law relevant to boundary determination, keeping in mind the axiom” Where boundaries are is a matter of facts: What Boundaries are is a matter of law.” How to locate and analyze appropriate Interior Board of Land Appeal (IBLA)cases along with federal and state cases. Intended for CFedS and Non CFedS Surveyors	PDH Credits = 4 CFedS CE Credits = 1 (Upon passage of CFedS administered quiz)
Glen Thurow Tasha Huhta Certified Federal Surveyor Bureau of Land Management CFedS Program	BLM Procedures-Protest, Appeals, Litigation: 14 Steps IBLA Case Study This session will include a review of three BLM processes and products. We will review the 14 steps of a cadastral study and the records created from official cadastral surveys, including a full overview of the protest, appeals, and litigation procedure. Specific IBLA cases will be considered. Objectives: To understand the process for all contests, adverse claims, protests, and conflicts to be adjudicated and processed in accordance with due process of law and withing prescribed Departmental procedures and judicial case law on the matter.	PDH Credits = 4 CFeds CD Credits =1 (Upon passage of CFedS administered quiz)
Joe Dolan Professional Land Surveyor Professional Planner Certified Flood Plane Surveyor Atlantic City, New Jersey	Survey Cost Analysis- Part I This course will help you to examine the elements that can make your business more profitable. Designed for those who are in business and those we want to be. Professional Ethics: Part II What makes us professionals? The course is designed to make us conscious of how we are viewed by the public, our clients and other professions.	Part I: PDH Credits = 4 Part II: PDH Credits = 4
Surveyors Roundtable Facilitating: Mike Lapp & Shannon Marinko	Surveyors Roundtable Discussion and Relevant topics.	PDH Credits = 2
Sean McFarland Professional Land Surveyor	Practical Use of LDP’s and Camera Settings for Aerial Photography	PHD Credits = 2
Montana State Library Geospatial Team Erin Fashoway, Kazi Affifuzzman Robert Holliday, Jeff Hedstrom	Geospatial Data Services & Resources of the MSL: General MGIA & MSL Program updates; MTSRN Update; Submitting Data to the Montana State Library, is a new method needed; The Cadastral Process – From Purchase to Publish	PDH Credits = 2
Stewart Nash Professional Land Surveyor Author	Historical Railroad Exploration	PDH Credits = 2
Tasha Huhta Bureau of Land Management	Cadastral Surveying Detailing the steps of a typical Cadastral Survey and associated land status records	PDH Credits = 2

<p>Frontier Precision Bob Green</p>	<p>Part 1 (1-hour) : Ground Control Techniques for Aerial Photogrammetry and LiDAR “From the Mexican Border to the Hoover Dam” This session will focus on a 453-mile survey I helped conduct along the Lower Colorado River from the Mexican Border to the Hoover Dam. Discuss various techniques used to capture UAV photogrammetry and Lidar ground control (GCP’s). This will include: RTK, PPK, Static and PPP (RTX). Basic statistical reporting will be discussed, and the newly released ASPRS 2023 Edition 2 Standards along with GNSS hardware and field software and with various apps and freeware</p> <p>Part 2 (1-Hour): “Embracing the Past to Accelerate the Future of Measurement Technology” In this presentation starts with cavemen living in France 17,000 years ago that knew the earth was round. Then I “travel through time” exploring great thinkers of the past and how they influenced today’s technology. Use of the bible as a historical document to reveal interesting insight. Predicting what the future of measurement science will look like both in application and principle.</p>	<p>PHD Credits = 2</p>
<p>Gary Kent Professional Land Surveyor Chair of National Society of Professional Land Surveyors ALTA/NSPS subcommittee Westfield, Indiana</p>	<p>ALTA/NSPS Land Title Surveys – Part I The 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land title Surveys were adopted by ALTA and NSPS in Oct 2020 with an effective date of Feb 23,2021. This program will outline the many changes from the 2016 Standards and provide a detailed explanation of the reason for each and how each may affect the surveyor. In addition, an overview of the entire set of 2021 Standards will be provided including a detailed explanation of the relationship between Land Title Surveys and Title insurance. The program will address common questions and requests from lenders that arise in performing a Land Title Survey, HUD surveys, and common FAQs.</p> <p>Managing your Survey Business in the 21st Century - Part II This program is designed to help surveyors navigate the challenges brought by a seemingly constantly changing regulatory climate, economy, technologies and society. The program ranges an in-depth look at some traditional business topics such as risk management and contracts, to discussion of the current regulatory attitude of legislators and understanding millennial employee motivations and expectations.</p>	<p>Part I: PDH Credits = 4</p> <p>Part II: PDH Credits = 4</p>
<p>Carlson Software Jim Reinbold</p>	<p>Drone to Cad The pitfalls of drone flights and how to avoid them. Processing data from photogrammetry and LiDAR flights. What to look for in the data and how to adjust for ease of use and sharing with clients and consultants. Using the processed data as LAS point clouds to extract information and create a CAD file ready for design use or finalizing a client deliverable. The tools used from beginning to end and the workflow to achieve desired results.</p>	<p>PDH Credits = 2</p>

<p>Young Surveyors Network Rylan Stahly</p>	<p>Montana National Society of Professional Surveyors Young Surveyors Network (NSPS YSN) event. The definition of a Young Surveyor is someone under the age of 35 or who earned their degree in the past ten years. All Surveyors, however, are welcome to join, but the focus will remain on supporting those new to the industry. To learn more about the NSPS YSN, visit the following link: About npsysn (youngsurveyors.org) ** Note must complete the World Museum of Mining Online Waiver to attend. The World Museum of Mining Online Waiver (wherewolf.co.nz) Limited to first 20 to sign up at conference.</p>	<p>PDH Credits = 2</p>
<p>Brian Shaw NOAA's National Geodetic Survey (NGS), Rocky Mountain Regional Advisor (CO, MT, WY)</p>	<p>The National Spatial Reference System: the Common Foundation of Surveying and GIS. NOAA's National Geodetic Survey (NGS) defines, maintains, and provides access to the National Spatial Reference System (NSRS), which is a common foundation for geospatial data that serves as the basis for civilian surveying and mapping in the United States. Changes in technology and a better understanding of the dynamic earth have made it necessary to improve the NSRS to be of better use for modern applications. Currently, NGS is in the process of modernizing the NSRS, updating the existing horizontal datums with a suite of geometric reference frames and the vertical datums with a gravimetrically-derived geopotential datum.</p>	<p>PDH Credits = 2</p>