

APLS FALL SEMINAR October 14, 2022 - Tucson

8:30 AM - 10:00 AM

When Atlas Shrugs: Understanding and Preparing for the Impact of New Datums (Speaker: Michael Dennis)

Like Atlas supporting the world, the National Spatial Reference System (NSRS) supports surveying and mapping throughout the United States. NOAA's National Geodetic Survey (NGS) defines, maintains, and provides access to the NSRS. NGS is in the process of modernizing the NSRS, scheduled for completion in 2025. It will include replacement of all horizontal and vertical datums with dynamic versions that account for coordinates that change over time, as well as an entirely new State Plane Coordinate System. This presentation will provide an overview to help raise awareness and prepare you for these coming changes. In short, the goal is to get you ready for the jolt when Atlas shrugs and suddenly moves the entire Earth.

10:30 AM - 12:00 PM

Grid, Ground, and Truth (Speaker: Brian Fisher)

This presentation will cover the current rules, contemporary common practices, and a look at what can be done better in the future. The current State Statutes and several best practices are being reviewed in the following work groups and committees: AGIC SPCS2022 Working Group; AGIC AZ-CORS Working Group; APLS Geospatial Committee. We'll also talk about how various local agencies are preparing for NATRF2022 by performing control surveys. Lastly, we will look at a few example jobs that used SPCS and NSRS on projects to good success.

1:00 PM - 2:30 PM

NOAA/NGS's OPUS-Projects 5.1 : An Intro & Overview (Speaker: Lynda Bell)

NOAA's Online Positioning User Service (OPUS) provides free access to high accuracy National Spatial Reference System (NSRS) coordinates. The latest BETA version of OPUS, OPUS BETA Projects 5.1 will be demonstrated and discussed. This version of OPUS fully supports Real Time Kinematic (RTK) surveys by adding RTK and post-processed GNSS vectors to your survey via the GVX File Format.

3:00 PM - 3:30 PM

Expanding & Improving the NOAA CORS Network in Arizona

(Speaker: Lynda Bell)

A new group of Arizona professional surveyors, planners, and engineers was formed under Arizona's Geographic Information Council (AGIC) and named AZCORS. This group of professional partners have come together to expand and improve the NOAA CORS Network (NCN) in Arizona. Some of the projects supported by this group in 2022 included the upgrade and maintenance of six non functioning NCN sites, the construction of a braced monument NOAA/NGS-City of Phoenix CORS station with instructional workshop, and support to federal partners from the United States Geological Survey and NOAA/NGS for scientific research in the Grand Canyon. Arizona will also be housing one of the first National/International Foundation CORS Arrays at Kitt Peak National Observatory, Tucson, Arizona in 2023.

3:30 PM - 4:00 PM

Overview of Surveying Class at Uof A (Speaker: Dan Tremblay)

Introduction to Basic Land Surveying. Introduces future Civil Engineers to the dynamics of the Surveying profession and how it relates to the work of a Civil Engineer.

4:00 PM - 4:30 PM

Intro to a New Surveying & Geomatics Eng. Manual (Speaker: Michael Dennis)

A new manual of practice, "Surveying and Geomatics Engineering: Principles, Technologies, and Applications", has been published by the Utility Engineering and Surveying Institute (UESI) of the American Society of Civil Engineers. This presentation introduces the manual and summarizes its content. Another important goal is to initiate a discussion about surveying education and the role of engineers in surveying, both today and in the future. surveying education and the role of engineers in surveying, both today and in the future.



Location:
University of Arizona
Old Main

Register Online:
AzPLS.org

Meet The Speakers



Michael L. Dennis, PhD, RLS, PE, is a geodesist at NOAA's National Geodetic Survey where he manages the State Plane Coordinate System of 2022 Project and is involved in a wide variety of other efforts to maintain and improve the National Spatial Reference System. Dr. Dennis is a Professional Engineer and Surveyor licensed in Arizona and an active member of several local and national geospatial organizations, including APLS.



Brian Fisher, PLS is an AZ PLS, works for CAP and is a member of APLS, AAGS, and AGIC. He is an active member and chairs several committees or workgroups.



Lynda Bell is currently a full-time civil servant for the Department of Commerce, serving as the Southwest Regional Geodetic Advisor for NOAA's National Geodetic Survey (NGS). Lynda

is serving as a liaison between NGS and its public, academic, and private sector customers within the SW region (Arizona, New Mexico, and Utah), providing guidance and assistance on geospatial activities that are tied to the National Spatial Reference System.

Daniel Tremblay, RLS has over 38 years of surveying experience, including 10 years as a Vice President of Surveying for an engineering firm, and 13 years serving as the Pima County Surveyor. Additionally, Dan is an adjunct lecturer for the Civil & Architectural Engineering Department at the University of Arizona teaching a sophomore level Elementary Surveying course.





FALL SEMINAR REGISTRATION FORM

October 14, 2022 – Tucson, Arizona

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Registration: <input type="checkbox"/> APLS Member Price: \$80 <input type="checkbox"/> Non-Member Price: \$120 <input type="checkbox"/> Student Price: \$25 <i>Seminar Registration Includes: Full day seminar, Refreshments, and Lunch</i>	
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<p>LOCATION INFORMATION: University of Arizona Old Main Building Tucson, Arizona</p> <p>QUESTIONS: T. (888) 994-3317 E. info@AzPLS.org</p> <p>REGISTER ONLINE AT: AzPLS.org</p>	<input type="checkbox"/> Check - Payable to APLS & Mailed to: Arizona Professional Land Surveyors (APLS) 526 South E Street, Santa Rosa, CA 95404 <input type="checkbox"/> Visa <input type="checkbox"/> Mastercard Total to Charge: _____ CC # _____ Exp. _____ CID (3 digits on back) _____ Billing Zip Code: _____