



# APLS

ARIZONA PROFESSIONAL LAND SURVEYORS

## Arizona Professional Land Surveyors Fall Seminar BEST PRACTICES FOR GPS TODAY Speaker: Jan VanSickle, PLS

**When:** Friday, November 15, 2019 (8:30 AM - 5:00 PM)

**Where:** Radisson Hotel Phoenix Airport, 427 N. 44th Street, Phoenix, AZ 85008

### SCHEDULE OF EVENTS:

8:00 AM - 8:30 AM Registration & Refreshments  
8:30 AM - 5:00 PM Seminar (7 Hours CE)  
10:00 AM - 10:15 AM Refreshment Break & Networking  
12:00 PM - 1:00 PM Luncheon & Presentation from Young Surveyors Network  
3:00 PM - 3:15 PM Refreshment Break & Networking

### BEST PRACTICES FOR GPS TODAY (7 Hours CE)

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. However, while RTK dominates the GPS surveying applications the requirements of setting up a GPS reference station on a known position, the establishment of a radio frequency transmitter and all attendant components before a single measurement can be made are both awkward and expensive. Real-Time Networks, RTN services have arisen around the world to provide RTCM real-time corrections to surveyors by a different means. There are definite advantages including the elimination of individual base station preparation and the measurement of longer baselines without rapid degradation of the results. This seminar is about making explaining some elements important to RTN operation and proposing some practical real-time best practices.

### ABOUT THE SPEAKER - JAN VANSICKLE

Jan Van Sickle has many years of experience in GIS, GPS, surveying, mapping and imagery. He has led nationwide seminars based on his three books, GPS for Land Surveyors, Basic GIS Coordinates and Surveying Solved Problems. The latter book was serialized in the magazine POB. Jan earned his Ph.D. in geospatial engineering from the University of Colorado. He has been a licensed professional Land Surveyor for thirty-one years and is currently licensed in Colorado, California, Oregon, Texas, North Dakota and West Virginia. For full bio and additional information, visit [www.JanVanSickle.com](http://www.JanVanSickle.com)

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Questions? (888) 994-3317 ~ [info@azpls.org](mailto:info@azpls.org)

**REGISTRATION INCLUDES 7 HRS. CE AND LUNCH**  MEMBERS \$175  NON-MEMBERS \$225

### REGISTRATION INFORMATION

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