

FAASTeam presents:

# **ADS-B Technologies and Their Limitations - What You Should Know But Have Not Been Told**

ADS-B technologies are becoming increasingly popular among pilots. However, despite all the good things we know about ADS-B, we rarely hear people talk about their technical details and limitations. In this safety seminar, we will discuss: Capabilities of different aircraft surveillance technologies: primary radar, Mode A, C, S, Multilateration (MLAT) and ADS-B, FIS-B, ADS-R and their limitations. What information are ADS-B Out equipped transponders squawking? What information is available in the FIS-B uplink and how often it is broadcasted? ADS-B service degradation in congested areas. FIS-B uplink vs. XM weather. Why some traffic may not show up even when your airplane is ADS-B Out capable? Why ADS-B traffic altitude is sometimes not so reliable? Things to remember when using portable ADS-B receivers (compared to panel mounted avionics) and more...

Datong Sun is a Software Engineer by training and pilot by passion. He obtained his private pilot certificate while still in college and has since added instrument rating, advanced and instrument ground instructor to his collection. His recent projects include the open source Pitot ADS-B receiver. While making Pitot, Datong had the chance to go through some pretty lengthy

## Event Details

**Wed, Sep 12, 2018 - 19:30 PDT**

**West Valley Flying Club**

1901 Embarcadero Rd.

Suite 100

Palo Alto, CA 94303



**Contact: West Valley Member Services**

**(650) 856-2030**

[mst@wvfc.org](mailto:mst@wvfc.org)

Select #: WP1584524

Representative GREGORY THOMAS WEST

ICAO and FAA technical documentation and found lots of interesting quirks about surveillance technologies that he would like to share with other pilots to help them make better decisions. Join us to get some deeper insights on ADS-B and handheld receivers than you find in the typical reference and marketing materials!

**Directions:** From Highway 101 head east toward the bay, turn left after the golf course. West Valley Flying Club is the second driveway on the right. Overflow parking in the golf course lot.

#### **A message from the National FAASafety Manager**

Invite a fellow pilot to the next WINGS Safety Seminar in your area.

Sign up for the FAA's safety services at [www.FAASafety.gov](http://www.FAASafety.gov)!

The FAA Safety Team (FAASafety) is committed to providing equal access to this meeting/event for all participants. If you need alternative formats or services because of a disability, please communicate your request as soon as possible with the person in the "Contact Information" area of the meeting/event notice. Note that two weeks is usually required to arrange services.