



Mile High Flyer

The Official Newsletter of
The Experimental Aircraft Association Chapter 43

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August, 2015

Next Meeting

Saturday, August 8, 2015

**7 PM @ the Mt. Evans Room in the
Terminal Bldg. @ Metro Airport.**

Our program -

Jim Loyd will be talking to us about his research and design of small flying wing type aircraft. He became interested in these aircraft from researching the ARUP flying wing built in the 1930's which was very stable and had excellent STOL characteristics. Jim has built several RC models and test flown them to assess his design variations before starting final design and building of his full size prototype aircraft. His final design will have folding wings and is intended to be constructed with steel tubing, fabric covered, and powered by a 95 HP Continental engine.

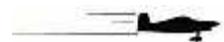
Editor's Corner

Oshkosh 2015 is now a memory, and it was a great year with just about perfect weather. As usual, I made my room reservation for next year while there, and I plan to be there for the 20th time with my own homebuilt, whether it is my T-18 or my Kitfox. All indications are that the Young Aviator's B-25 project was a huge success, and all involved should be extremely proud of what they accomplished! It really was an amazing feat! It was so cool to see the "bird" on display, and the whole crew doing their jobs! We're very proud of all of you!



It still may not be too late to call your senators in support of the Pilots Bill of Rights 2. All pertinent information can be found on the EAA or AOPA websites. <http://govt.eaa.org/>

John



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Upcoming Events Calendar

Submitted by *Don Smith*

2015 EVENTS

AUGUST

- Sat* 1 Front Range Airport Pancake Breakfast, KFTG, 7:00 – 10:00 a.m.
<http://www.ftg-airport.com/events.php>
- Sat* 1 EAA Chapter 301 Young Eagles Rally, FTG 7:45 a.m.
- Sat* 1 Front Range Airport Runway Safety Action Team (RSAT) Meeting, KFTG, 10:00 – 11:00 a.m.
- Sat* 8 EAA Chapter 301 Young Eagles Rally for WINGS Campers, FTG 7:45 a.m.
- Sat* 8 Erie Air Fair, KEIK, 10 a.m. – 4 p.m. <http://erieairfair.com/>
- Sat* 8 CPA Meet & Greet, KAPA, Arapahoe T-Hangars, 4:00 – 8:00 p.m.
<http://coloradopilots.org/meetandgreet2015.pdf>
- Sat* 8 EAA Chapter 43 Membership meeting, KBJC, 7:00 p.m.**
- 14-16 **Rocky Mountain Airshow, Rocky Mountain Metropolitan Airport (KBJC)**
<http://www.cosportaviation.org/home.html>
- Sat* 15 **EAA Chapter 43 Young Eagles rally, EIK, 7:30 a.m.**
- Sat* 15 Hops in the Hangar, Wings over the Rockies Museum, 5:00 p.m. – 11:00 p.m.
<http://wingmuseum.org/hops/>
- Sun* 16 National Aviation Day
- Mon* 17 AFC/FAA Team Wings Safety Seminar, Ramada Hotel, Centennial Airport, 6-8pm
- 21-22 AOPA Fly-in, Anoka County-Blaine Airport, Minneapolis, MN (ANE)
- Fri* 21 EAA Chapter 301 Membership meeting, 7:00 p.m.
- Sat* 22 EAA Chapter 72 Young Eagles Rally, FLY 8:00 a.m.
- Sat* 22 The annual “301, Kniese, Lemen hanger party”, FTG, 11:00 a.m. (T)
- Sat* 29 EAA Chapter 301 Young Eagles Rally, FTG 7:45 a.m.

SEPTEMBER

- 2-7 Antique Airplane Assn./Air Power Museum Invitational Fly-In, Blakesburg, IA
<http://www.antiqueairfield.com/flyins/2015-join-the-record-breakers.html>
- 10-12 7th Annual Midwest LSA Expo, Mt. Vernon Outland Airport (MVN), Mt. Vernon IL
<http://www.midwestlsashow.com/index.html>

(Cont. on p.3)

Upcoming Events Calendar

(Continued)

SEPTEMBER (cont.)

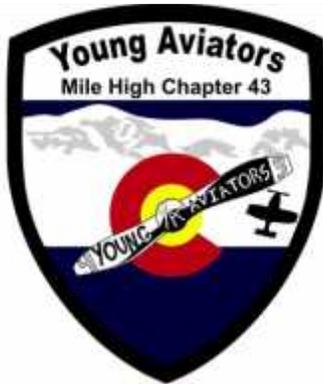
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|------------|-------|--|
| <i>Sat</i> | 12 | EAA Chapter 43 Young Eagles Rally, EIK 7:30 a.m. |
| <i>Sat</i> | 12 | <i>EAA Chapter 43 Annual Pizza Party/AirVenture Debrief, Lynn Miller's home, EIK, 6:00 p.m.</i> |
| | 16-19 | 51 st Reno National Championship Air Races, Reno Stead Airport (RTS), Reno, NV |
| <i>Fri</i> | 18 | EAA Chapter 301 Membership meeting, 7:00 p.m. |
| <i>Sat</i> | 19 | Colorado 99's Poker Run |
| <i>Sat</i> | 19 | EAA Chapter 72 Young Eagles Rally, FLY 8:00 a.m. |
| <i>Sun</i> | 20 | Wings and Wheels Expo 2015, KHGR, 9 a.m. – 4 p.m. (T) |
| <i>Mon</i> | 21 | AFC/FAASTeam Wings Safety Seminar, Ramada Hotel, Centennial Airport, 6-8 p.m. http://www.wingsandwheelsexpo.com/ |
| | 25-26 | AOPA Fly-in, Colorado Springs Municipal Airport, Colorado Springs, CO (COS) |
| <i>Sat</i> | 26 | Rusty Pilots at the AOPA Regional Fly-In in Colorado Springs, CO, 07:30 - 11:00 a.m. |
| <i>Sat</i> | 26 | The Rifle Garfield County Airport (KRIL) hosts its fourth annual Rocky Mountain Fall Fly-in (T) http://www.rifleairport.com/ |
| <i>Sat</i> | 26 | Fremont County Airshow/Fly-In, 1V6, EAA Chapter 808 Breakfast 7-10 a.m., Airshow 10 a.m.-1 p.m. (T) http://www.fremontco.com/airport/index.shtml |
| <i>Sat</i> | 26 | Leadville-Lake County Airport (KLXV) 6 th Annual Pancake Breakfast Fly-In from 8 a.m.-11 a.m. http://www.lxvairport.com/newsandevents.html |
| <i>Sun</i> | 27 | Telluride Fly-In (KTEX) Hamburger/Hot Dog Lunch 11 a.m – 1 p.m. (T) http://www.tellurideairport.com/ |

Want Ads

Looking for an A&P for a 1966 piper Cherokee 140. Our previous mechanic moved away. Have a few immediate small repairs and maintenance items.

Steve Paschke 720-236-8717

Want Ads & articles for publication may be sent to the editor - newsletter@eaa43.org



Young Aviator Update

August 2015

Mission Oshkosh 2015: SUCCESSFUL!

The McKinley Jr. High B-25J made its way to Oshkosh AirVenture on July 16 and arrived home safely on July 27.

There were over 500 missions ran in KidVenture 2015. We kept a guest book and while a few visitors escaped without signing it, we wanted to share the stats that we were able to collect. Some of the comments are shared with the photos too.

Mission participants ranged in age from 5 to 74. In addition to the guests that visited from all over the United States, we also trained visitors from Australia, Chile, Canada, Egypt, England, Spain, and Switzerland.

Please look at the video that KidVenture made for their YouTube channel. The link is also on the Facebook page. <https://www.youtube.com/watch?v=GokIxa7PCaw>

What's next? Well, we were invited back to KidVenture next year with VIP treatment so we'll see what the next year brings.

For the mission to be fully staffed as the mission is currently designed it takes 8-10 adults and/or Young Aviators to train and run a mission. One of the goals for this year is to streamline some of the training. There were over 60 Coloradans, 2 Floridians, and visiting family from Colorado and other states that traveled this year so we had people to work at the plane. We have to believe that we won't always have that many hands on deck.

DEBRIEFING FEEDBACK

"It was fun. I learned a lot"

"I'M COMING BACK!"

"Quite enjoyable"

"Spiffing"

"I LIKED LEARNING FROM KIDS"

"Just as fun as the best flight simulator"

Thanks!!

"Best simulator I've ever seen!"

"Bombs Away"

"absolutely smashing"

"WOW!"

"Mission Successful"

"Cool" (28 times!)

"FUN"

Great work! We enjoyed the project!"

"Amazing!"

(53 times)

How many ways can you spell "awesome"?!
 "Awesome" "Asesome" "Aosome"

"Asom"

"Asaum"

We had a lot of laughs:

Trainer: "If the plane is damaged you have to parachute out."

Guest: "Will I have to do that today?"

Trainer: "You know SOS is like today's 911?"

Guest: "Yes, but mom said if I ever dialed it by accident I'd be in really deep heat!"

Guest to Trainer: "Do I have to memorize all of this?"

Guest: "I've got a really important question. Do I have to jump out of that plane now?"

September will bring more news about the B-25 goals for the year and other field trips, speakers, and training the kids will be able to participate in.

Thank You Chapter 43!





Member Jeff Cain receiving Plans Built Outstanding Workmanship Award at Oshkosh. Congratulations, Jeff!



Seen at Oshkosh
2015

Hmmm?!



ADS-B Safety Benefits In and Out of Your Normal Base of Operations

CLIFTON STROUD

When flying in familiar territory, we're comfortable with the airspace, the weather patterns, and the traffic patterns. But what do we know when flying out of our normal operating area?

With thousands of pilots planning unfamiliar flights to EAA AirVenture, the Oshkosh airshow in late July, it's a good time to review the benefits of both Automatic Dependent Surveillance – Broadcast (ADS-B) Out and In. For everyday flying and especially for this kind of trip, ADS-B provides a significant boost in safety and situational awareness for general aviation (GA) pilots.

Nearly 11,000 aircraft — most of them GA airplanes — are now equipped for ADS-B Out and more than 120 of the FAA's 230 air traffic control facilities are using ADS-B, in conjunction with radar, to separate traffic. ADS-B Out transmits aircraft location data to air traffic controllers and other aircraft equipped to receive it.

The GPS-based surveillance provided by ADS-B Out enhances the ability to perform life-saving search and rescue missions. Controllers tracking aircraft with ADS-B Out have more accurate information about the last reported position of your aircraft. ADS-B Out avionics transmit data about once every second — compared to radar, which is about 3-15 seconds. This reduces that critical window of time involved in a search and rescue operation. And in rugged mountainous terrain — where even a minor accident could have dire consequences — having ADS-B coverage could assist in a search and rescue. The smaller footprint of ADS-B ground stations means they can be placed where a radar site would not be possible.

Although only ADS-B Out is mandated by January 1, 2020, for aircraft flying in most controlled airspace — aircraft without electrical systems are excluded — there are also significant advantages to ADS-B In. With ADS-B In and Flight Information Service– Broadcast (FIS-B), a pilot gets unprecedented levels of situational awareness, which translates into significant safety benefits.

FIS-B provides pilots with graphical weather displays in the cockpit as well as text-based advisories including NOTAMs and significant weather activity. This includes temporary flight restrictions or closed runways. These advisory services are provided free of charge to the user. Another key benefit of ADS-B In is that terrain maps can easily be added to cockpit displays, which is especially helpful in unfamiliar airspace or low-visibility situations.

Pilots of ADS-B In-equipped aircraft will see what controllers now see — the position of surrounding aircraft together with graphical weather displays. This creates an environment of shared situational awareness and crucial see-and-avoid capability.

There are three types of traffic broadcasts:

- **Traffic Information Service-Broadcast (TIS-B):** This air traffic advisory service provides the altitude, groundtrack, speed and distance of aircraft flying in radar contact with controllers and within a 15-nautical-mile (nm) radius, up to 3,500 feet above or below the receiving aircraft's position. TIS-B enables pilots to see aircraft equipped with transponders flying nearby even if those aircraft are not equipped with ADS-B Out.
- **Airborne Data Exchange:** Aircraft equipped with ADS-B In can also receive position data directly from other aircraft broadcasting on the same ADS-B Out frequency.
- **Automatic Dependent Surveillance— Rebroadcast (ADS-R):** This takes position information received on the ground from Universal Access Transceiver (UAT) equipped aircraft and rebroadcasts it on the 1090 megahertz (MHz) frequency. Likewise, ADS-R rebroadcasts 1090 MHz data to UAT users. In concert with TIS-B, airborne data exchange and ADS-R provide all ADS-B In-equipped aircraft with a comprehensive airspace and airport surface traffic picture. ADS-R delivers traffic data within a 15-nm radius 5,000 feet above or below relative to the receiving aircraft's position.

The FAA has also established standards for a new ADS-B In capability that will allow pilots to keep track of aircraft flying in front of them during a visual approach. The pilot will be able to monitor the aircraft ahead by looking at a cockpit display of its position based on data received through an ADS-B broadcast. The FAA has urged operators to equip soon for ADS-B Out to avoid a last-minute crunch, given a limited number of qualified repair stations. Whether you equip now or later, consider adding ADS-B In as well. It can make unfamiliar airspace a lot more comfortable.

For more information on how to equip for ADS-B, access www.faa.gov/go/equipadsb.

Clifton Stroud is a contract writer/editor with Beacon Management Group. He supports the NextGen Performance and Outreach Division.

From the:

July/August 2015

FAA Safety Briefing

2015 Chapter Officers

President	John Reuterskiold	303-881-3517
Vice President	Ken Scott	303-674-7846
Vice President	Greg Hall	303-424-4216
Secretary	Roxie Juul	303-466-2600
Treasurer	Myles Lee	720-295-8778

Board of Directors

John Reuterskiold (Chairman)
 Cliff Hasenbalg*
 Don Smith*
 Lynn Miller**
 John Juul**

(Note: *- 2 year terms expire end of 2016, **- 2 year terms expire end of 2015)

Volunteer Officers

Technical Counselor	Art Schwarz	303-905-2125
Technical Counselor	Jim Sutton	303-598-4205
Technical Counselor	John Reuterskiold	303-881-3517
Technical Counselor	Bill Truax	303-249-2578
Flight Advisor	Bill Mitchell	303-427-4025
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Young Aviators Advisor	Pat Miller	303-666-8233
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Refreshments	John & Roxie Juul	303-466-2600
Audio/Visual	Herrill Davenport	303-460-7789
Scholarship Chairman	Lynn Miller	303-666-8233
Scholarship Fundraising	Stan Specht	303-232-8474

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Richard Brown	303-558-0793
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Jeff Hinkle	303-550-2291
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Stephanie Wells	303-503-0147

Mile High EAA Chapter 43

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First Class



Meetings are normally held on the second Saturday of each month at 7:00 P.M.—Location determined monthly. See Page 1 for details of the upcoming meeting.