

## Mile High Flyer

The Official Newsletter of The Experimental Aircraft Association Chapter 43

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#### **Next Meeting**

#### Editor's Corner

#### Saturday, September 12, 2015

6 PM @ 3015 Piper Drive South,
Erie, CO (on the East side of the
Erie Airport). This is our
annual Pizza Party/ Oshkosh
Review. Bring your pictures (a
usb flash drive is best), stories,
and a salad or dessert if you
wish.

See map on Page 3.

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I'm looking forward to our annual Oshkosh review meeting at Lynn and Pat Miller's home. The chapter will provide Pizza & beverages. Come and share the experience with us!



There is a brief update on long-time member & friend, Chuck Graf on page 2. Please keep him in your thoughts & prayers.

Last month's meeting was a very interesting presentation by member Jim Loyd. Some of the info & data from Jim is on pages 5 & 6 of this issue. Thank you Jim!

I crossed a good milestone when I completed the covering of my Kitfox project, and ordered an engine & propeller recently. Fun times!

Keep building & flying!

John



### Uncoming Events Galendar

#### Submitted by Don Smith

#### **2015 EVENTS**

#### **SEPTEMBER**

| 2-7   |             | Antique Airplane Assn./Air Power Museum Invitational Fly-In, Blakesburg, IA <a href="http://www.antiqueairfield.com/flyins/2015-join-the-record-breakers.html">http://www.antiqueairfield.com/flyins/2015-join-the-record-breakers.html</a> |  |  |
|-------|-------------|---|--|--|
| 10-12 |             | 7 <sup>th</sup> Annual Midwest LSA Expo, Mt. Vernon Outland Airport (MVN), Mt. Vernon IL <a href="http://www.midwestlsashow.com/index.html">http://www.midwestlsashow.com/index.html</a>  |  |  |
| Sat   | 12          | EAA Chapter 43 Young Eagles Rally, EIK 7:30 a.m.  |  |  |
| Sat   | 12          | EAA Chapter 43 Annual Pizza Party/AirVenture Debrief, Lynn Miller's home, EIK, 6:00 p.m.  |  |  |
| Fri   | 16-19<br>18 | 51 <sup>st</sup> Reno National Championship Air Races, Reno Stead Airport (RTS), Reno, NV EAA Chapter 301 Membership meeting, 7:00 p.m.   |  |  |
| Sat   | 19          | Colorado 99's Poker Run   |  |  |
| Sat   | 19          | EAA Chapter 72 Young Eagles Rally, FLY 8:00 a.m.  |  |  |
| Sun   | 20          | Wings and Wheels Expo 2015, KHGR, 9 a.m. – 4 p.m. (T)   |  |  |
| Mon   | 21          | AFC/FAASTeam Wings Safety Seminar, Ramada Hotel, Centennial Airport, 6-8 p.m. <a href="http://www.wingsandwheelsexpo.com/">http://www.wingsandwheelsexpo.com/</a>   |  |  |
|       | 25-26       | AOPA Fly-in, Colorado Springs Municipal Airport, Colorado Springs, CO (COS)   |  |  |
| Sat   | 26          | Rusty Pilots at the AOPA Regional Fly-In in Colorado Springs, CO, 07:30 - 11:00 a.m.  |  |  |
| Sat   | 26          | The Rifle Garfield County Airport (KRIL) hosts its fourth annual Rocky Mountain Fall Fly-in (T) <a href="http://www.rifleairport.com/">http://www.rifleairport.com/</a>   |  |  |
| Sat   | 26          | Fremont County Airshow/Fly-In, 1V6, EAA Chapter 808 Breakfast 7-10 a.m., Airshow 10 a.m1 p.m. (T) <a href="http://www.fremontco.com/airport/index.shtml">http://www.fremontco.com/airport/index.shtml</a>                                   |  |  |
| Sat   | 26          | Leadville-Lake County Airport (KLXV) 6 <sup>th</sup> Annual Pancake Breakfast Fly-In from 8 a.m11 a.m. <a href="http://www.lxvairport.com/newsandevents.html">http://www.lxvairport.com/newsandevents.html</a>                              |  |  |
| Sun   | 27          | Telluride Fly-In (KTEX) Hamburger/Hot Dog Lunch 11 a.m – 1 p.m. (T)<br>http://www.tellurideairport.com/   |  |  |

Update on <u>Chuck Graf</u>: Following an operation on August 25th to repair his heart values, he is still in ICU at Lutheran Hospital as of the 31st, recovering and doing pretty well according to the family - just some relatively minor post-operation issues. We all wish him the best of luck, and send our good wishes and prayers! Get well soon!!!

Next Meeting on Saturday, September 12th at 6:00 PM—3015 Piper Drive South.





Want Ads & articles for publication may be sent to the editor - <a href="mailto:newsletter@eaa43.org">newsletter@eaa43.org</a>



# Young Aviator Update September 2015

The Erie Air Fair was on the  $8^{th}$  and the B-25 was there with some of the mentors and kids. There are now a few new kiddos in the ranks, ready for the next project.

On Friday the 28<sup>th</sup>, we had a celebratory picnic in the Erie Community Park where Scott and Pat talked with the kids about what they would like to see/do in the coming year. The consensus was that they would like to meet twice a month. One as a work session and another to make some enhancements on the B-25 but also dedicate some time for much needed repairs on the other two simulators. The second will be used for guest speakers, field trips, ground school, etc.

The first field trip was on the 29<sup>th</sup>. Ian Dahlke, one of the B-25 mentors, arranged for us to visit NEON in Boulder (National Ecological Observatory Network). NEON has a Twin Otter that is used to gather data on specific land and aquatic sites across the country. It was fascinating. Visit them at Neoninc.org

A team of employees gave up their Saturday afternoon to be there with us. They took the group through four stations where they explained what they do, how the equipment works, what the data they collect is used for, and showed them how the plane which is equipped. We saw high powered cameras, lasers, GPS, and computers used for data collection. The Otter is going to have the equipment taken out next week for maintenance this winter, so the opportunity to see it fully equipped only happens for a couple days a year. Many thanks to those who made this possible.

Future potential field trips include Jeppesen, Vaisala, and special events at Wings Over the Rockies. We would like to have some speakers visit and share their experiences in aviation. If you have suggestions for guests, please email us or get in touch with Pat Miller.

We have updated our Facebook page. Please visit and "like"! Thanks, Jamie Kellogg! Search Young Aviators 43 to find us!

#### From Jim Loyd -

#### ADVANTAGES OF

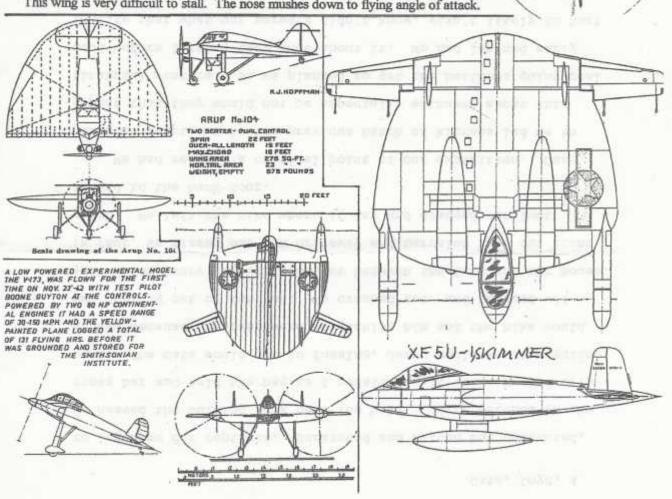
#### LOW ASPECT RATIO CONFIGURATION

#### STRUCTURE

- Small size (L=17', W= 14') with large lifting area -161 sq ft.
   With folded wings fits 1 car garage
- 2. Form and structure is simple and compact. Can be built in small area.
- 3. Structure can be very light because thick short wing allows light spars, ribs, etc.
- 4. Large internal capacity fuel, baggage, wheels, radiator, etc.
- Large CG envelope.

#### AERODYNAMICS

- A curved trailing edged wing with an aspect ratio of 1.27 to 1.50 performs the same as a typical 6 to 1 aspect ratio wing.
- The Reynolds Number of the air flowing over the wide chord wing is higher, resulting in a higher Lift/drag ratio.
- A thicker boundary layer exists over the long chord of the wing that prevents the tripping of the air flow and loss of lift. It also means that bumps, dents and rough surfaces on the wings do not have near as much effect on lift and drag as on a long narrow chord wing.
- 4. The curved trailing edge allows the air to leave the wing smoothly with very small or no tip vortices. Air stays attached at even at high angles of attack (30-34 degrees). This wing is very difficult to stall. The nose mushes down to flying angle of attack.



#### More from Jim Loyd -

#### SPECIFICATIONS FOR LOYD Low Aspect Ratio Airplane

#### Dimensions & Weights

Wing Span 14' Chord 14' Aero Chord 12'

Wing Area 141sq ft
Aspect Ratio 1.39-1
Wing Ldng 6#/sq ft
Ttl Length 17'
Hgth Spinner 6'

Hgth Rddrvator 7'6"

Airfoil 12% reflexed 5% at 75% chord

CG Limits 15% to 35% chord (31")

Airframe wt Soo lbs Engine wt 200 lbs Fuel (20gls) 120 lbs Misc 40 lbs Pilot&Pssngr Baggage etc. 100 lbs Gross wt 1120 lbs

Power 100Hp -2700RPM

Prop disc 72" dia. Power loading 11 lbs/ HP

#### Estimated Performance

Take off speed 25-30 MPH Landing speed 24-28 MPH Cruise Speed (65%) 130 MPH

Top Speed (100%) 172 MPH

Reynolds Numbers at 8,000' ASL

Reynolds Number at 50 MPH =4,608,000

Reynolds Number at 100MPH = 9,216,000

Reynolds Number at 150 MPH = 13,824,000

## POKER RUN

Hosted by

## THE COLORADO 99s

INTERNATIONAL ORGANIZATION OF WOMEN PILOTS

Saturday, September 19, 2015

Terminus at Rocky Mountain Metropolitan Airport



#### Stops include:

Greeley

(GXY)

Fort Morgan

(FMM)

Fort Collins

(FNL)

Longmont

(LMO)

For registration information: colorado99s.org

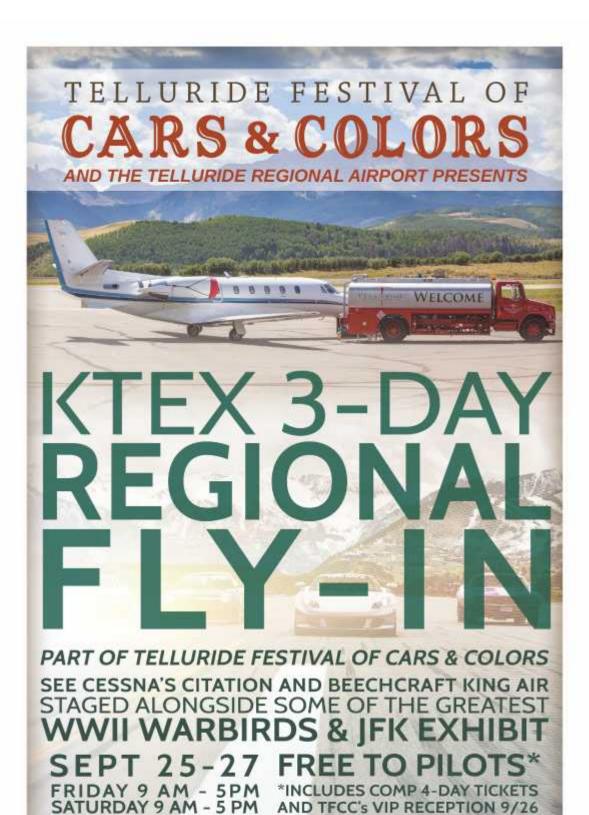
Start at any of the designated airports in any order and pick up a card between 9 and noon. Must be at BJC by 12:30 p.m.

LUNCH at the TERMINUS, between 1-3 p.m.—may be purchased at Blue Sky Bistro!

### SUPPORTS THE COLORADO 99s SCHOLARSHIP FUND

All Are Welcome! Anyone can play. Must stop at all airports.

THIS EVENT WILL TAKE PLACE IN VFR WEATHER ONLY!! Information phone number is 303-503-0147 In the event of inclement weather, the Poker Run will be held the following day, September 20, 2015.



For more information visit CarsAndColors.com

Telluride Alpine Lodging



SUNDAY 9 AM - 3 PM







FOR DETAILS, CALL: 970-519-3015



#### 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 |
| Newsletter Editor        | John Evens        | 303-420-2724 |
| Young Eagles Coordinator | Terri Bazacos     | 559-618-0159 |
| Young Aviators Advisor   | Pat Miller        | 303-666-8233 |
| Young Aviators Advisor   | Scott Serani      | 303-358-2858 |
| Data Base Editor         | John Reuterskiold | 303-881-3517 |
| Web Master               | Brian Cabebe      | 303-748-5570 |
| Safety Officer           | Stephanie Wells   | 303-503-0147 |
| 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 |

#### CFI's in Chapter 43

| Cleon Biter     | 303-709-9312 |
|-----------------|--------------|
| Richard Brown   | 303-558-0793 |
| Mark Davis      | 303-425-4080 |
| Jeff Hinkle     | 303-550-2291 |
| Bill Mitchell   | 303-427-4025 |
| Tom Shaw        | 303-275-0904 |
| Stephanie Wells | 303-503-0147 |

#### Mile High EAA Chapter 43

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EAA Chapter 43

P.O. Box 1725

Broomfield, CO 80038-1725

First Class



