



Mile High Flyer

*The Official Newsletter of
The Experimental Aircraft Association
Chapter 43
Established May, 1958*



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March, 2017

President's Message

We have sent out the Chapter 43 member survey that was mentioned during the February meeting. The purpose of the survey is to find out what we are doing right and what things the membership thinks we need to change or add to our programs and activities. So please take a few minutes to review the survey and make your suggestions. We will let you know the results of the survey when all responses have been received and compiled. As always, please contact the chapter board members or officers at any time with recommendations you may have to help make our chapter a driving force in promoting aviation, supporting builders, and reaching out to those interested in aviation.

We are pleased to have Duane Root from Chapter 648 speak to us about his Falco F8L airplane at the March meeting. The Falco was designed and built in Italy and converted to kit form in the U.S. during the 1980s. The Falco is a very pleasing design that is fast, acrobatic, and an easy handling aircraft.



Next Meeting - [Saturday, March 11, 2017](#)

7 PM @ the Mt. Evans Room in the Terminal Bldg. @ Metro Airport (BJC)

Upcoming Events Calendar

Submitted by *Don Smith*

2017 EVENTS

MARCH

- Sat 4 Hops & Props, EAA's fine food and beverage-tasting event, AirVenture Museum, 7–10 p.m. CST
<http://www.eaa.org/hops&props/>
- Sat 11 EAA Chapter 43 Membership meeting, BJC, 7:00 pm
- Fri 17 EAA Chapter 301 Membership meeting, 7:00 p.m.
- Sat 18 EAA Chapter 43 Young Eagles Rally, EIK 7:30 a.m.
- Sat 25 EAA Chapter 301 Young Eagles Rally, FTG 8:00 a.m.
- Sat 25 Jeffco Aviation Association Annual Meeting, KBJC, Mt. Evans Room, 12:00 p.m.

APRIL

- 5-10 Sun 'n Fun 2016 International Fly-in and Expo, Lakeland FL (LAL)
<http://www.sun-n-fun.org/FlyIn.aspx>
- Sat 8 EAA Chapter 43 Membership meeting, BJC, 7:00 pm
- Sat 15 EAA Chapter 43 Young Eagles Rally, EIK 7:30 a.m.
- Fri 21 EAA Chapter 301 Membership meeting, 7:00 p.m.
- 28-29 AOPA Fly-in, Camarillo CA(KCMA)
- Sat 29 EAA Chapter 301 Young Eagles Rally, FTG 7:45 a.m.

From the Editor - The Chapter 43 Board has decided to take the newsletter completely electronic; following this month's edition, it will no longer be distributed through the US mail. There are several reasons for this change:

1. Print costs for the mailed newsletter. The usual newsletter content fits on two 11 x 17 (ledger) sized pages plus a single 8 1/2 x 11 (letter) page, printed on both sides, in color (B&W for the letter page). We've been having this professionally printed by Office Depot/Office Max at the discounted rate of \$0.96 per side for ledger and 0.12 for letter - which means each newsletter costs \$4.08 to print, plus \$0.49 postage. That's an annual cost of almost \$55 for one individual's newsletters!
2. There are only 3 members who receive a paper newsletter - and one of them DOES have an email address on record.
3. Due to the printing costs above, the newsletter has been limited - the editors have had to decline longer articles, or too many Want Ads, which is frustrating for both the editors and the authors!

If you currently receive the newsletter in printed form and want to discuss this matter (or submit your email address), please contact the Newsletter Editor using the contact information on page 11 of this newsletter. Thanks!

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

Want Ads



Bill Mitchell reports that these folks can embroider a couple of different sizes of our chapter logo on jackets, shirts, etc. Bill showed some examples at one of our meetings, and they were beautifully done!

For Sale: RANS S19 Venterra N232CT



Asking \$80,000

2015 ROTAX 912 ULS, approx. 117 hours TTA&E, E-AB registered LSA qualified, Dynon avionics; Skyview PFD, radio, intercom, mode S transponder, ADS-B In/Out (2020 compliant), ELT, strobe, Nav and landing lights. Ground Adj. Prop. 24 gal fuel. Canopy cover. Always hangered. No Damage History.

Located at Vance Brand Airport, Longmont, CO.

Contact Friend of Owner: Mike Duggan 720-304-6793

Want Ads Cont'd

For sale: Aerolift Airplane Lift



This is a 2,500 lb. capacity electrically operated hoist purchased new from manufacturer (ARM Aerospace) in 2015 and it is in "like new" condition. The lift is equipped for a nose wheel aircraft and tail wheel kits are available from the manufacturer. Asking \$8,000 or best offer. Email for more info: eagerlee6@gmail.com

The lift is currently installed in my hanger at Denver Front Range Airport (KFTG) and can be seen there. See complete product details at: <http://armaerospace.com/>

Paul Hahn [303-423-2839](tel:303-423-2839)

CHAPTER 43 Member Meeting Minutes

February 11, 2017 Rocky Mountain Metro Airport

GUESTS Please tell us a little about yourself
Interest in aviation, Flying, Building
Sign in and get 6 month trial membership in Chapter 43

Rick and wife Jenny are owners and pilots of a Taylorcraft. Trevor Weshlar, attending with his dad, is an officer at the CU flying club. He's currently renting but wants to build. Scott McEwen suggested that Trevor invite his fellow club members to future Chapter 43 meetings!

ANECDOTE OF THE MONTH

Scott told a joke about a farmer and his pond.

APPROVAL OF Dec 2016 and Jan 2017 MINUTES

Minutes were approved.

TREASURER REPORT

Myles Lee presented the 2016 Financial Report (February 1 to January 31, which keeps the annual banquet expenses and income in the same fiscal year) along with a comparison to 2014 and 2015. \$2500 (excess from 2017) has been rolled over to the 2018 Scholarship Fund.

TRIP REPORTS

Stan Specht reported on his recent trip to Southeast Asia. No general aviation aircraft to be seen for a whole month! Highlights included a balloon flight in Myanmar and landing in Saigon, which brought up memories for the Chapter's Vietnam veterans.

SCHOLARSHIP

Four scholarships have been awarded; one younger candidate will be going to the EAA summer camp and the remaining three will be receiving \$1500 each for flying lessons. Note that \$1000 of each scholarship must be spent by August – we want them flying!

PROGRESS REPORTS

Tim Stansbury and wife Meggin are building an RV-10 – Myles has been assisting with tools and encouragement. John Evens has completed the instrument panel and wiring for his Kitfox and is hoping to start flying it this summer.

SAFETY REPORT

Ken Scott reported on another Brit pilot landing (poorly) in a house. In this case, the pilot and passengers survived. Bill Mitchell reported that a pilot had face planted at Front Range today.

YOUNG EAGLES

Cliff Hasenbalg presented outstanding Young Eagle ground crew and pilot awards. Stan Specht has made 370 Young Eagle flights, beating Herrill Davenport by only 2 flights. Young Eagles already has 45 registrations for the upcoming months, even though there were web issues with the registration site that have since been resolved. Contact Cliff to volunteer (or to stop volunteering) for ground crew or pilot, and remember that pilots must complete Youth Protection training available at the EAA national website, at <http://www.eaa.org/youthprotection>.

CHAPTER 43 Member Meeting Minutes, continued

February 11, 2017 Rocky Mountain Metro Airport

YOUNG AVIATORS

Scott Serani: the B25 has a few mechanical needs this year, but the Young Aviators' main focus will be on B25 display and STEM events. Challenge activities are being planned for drones/RC aircraft with missions designed by Young Aviators competed between three teams, starting at the March 4th meeting. Bill Kendall and Herrill Davenport are organizing an ICAN program (Inspire, Communicate, Aviate, Navigate) whereby participation in Young Aviator training and events can earn the Young Aviators an extended (1 1/2 – 2 hours) flight devised by the awardee. In addition, the Xenotech laser is up and running, and one of the Young Aviators recently soloed.

FLIGHT ADVISORS and TECH COUNSELORS

No report.

OLD BUSINESS

Membership dues – please renew so a new roster can be published! 45 members from last year have not yet renewed; 75 members are now current.

Cleon Biter's aircraft is to be sold outright (see Want Ads), so the effort to establish an auxiliary flying club discussed at the December meeting will not be required.

NEW BUSINESS

KidVenture Volunteers – Volunteers are needed for both rib building and the B25. The rib building leadership is burning out (they haven't gotten to participate in other AirVenture activities in years!) Please contact Stan Specht or Steve Beach to volunteer for rib building and Scott Serani to volunteer for B25 activities.

Chapter Picnic location for May 2017 – now set at the same location as the past several years, the Jeff Jones/Scott Serani hangar at Erie (EIK).

Chapter 43 will be sending out a membership survey in the next several weeks – PLEASE respond!

Cleon Biter Memorial Wall Plaque – cost is \$350, donations can be given to Myles Lee. The money along with a written memorial and picture needs to be submitted to National by April 14. Bill Mitchell moved that the Chapter go ahead with the submittal; the motion was quickly seconded and approved.

Respectfully Submitted,
Val Gregory, Secretary EAA Chapter 43

CHAPTER 43 Member Meeting

February 11, 2017 Rocky Mountain Metro Airport

TONIGHT'S PROGRAM

Phil Nelson gave a talk describing extreme weather conditions brought about by climate change. Phil is an MIT trained geophysicist, retired from a career in mining, nuclear waste handling, and the oil & gas industry. His exposure to aviation came about while surveying via helicopter in the Brooks Range in Alaska.

Globally there is “too much heat”. Phil presented the example of the weather conditions in the southwest US during June 17-30 2016, including an Arizona haboob. March 2016 was the warmest March on record since global recordkeeping began in 1880. Denver has had similar warm records in the last few months (78° in November). 2016 was the hottest year on record globally.

Phil thinks the heating trend since 1970 may be due to China ramping up industry in the wake of the Nixon visit and trade agreements. Scott McEwen pointed out that the rate of change is equivalent to $\sim 1/2$ of a standard deviation, and asked if Phil has a feel for the causation mechanism. Phil replied no, he's just covering the data.

More heat means more water vapor in the atmosphere (asymptotic relationship); water vapor is a greenhouse gas, albeit a less serious one than CO₂ since water vapor will condense into rain.

Phil is a member of The Alliance for Integrative Approaches to Extreme Environmental Events, which teams meteorological and social scientists to study mitigation and response. One type of event being studied is wildfires in the US and other countries. Soil dryness due to warmer temperatures has a big impact on fire danger.

MIT is heading large scale efforts to reduce greenhouse gases. Personal efforts include improving home insulation to reduce energy use. Cities and many states are investing in alternative energy – Iowa is the “Saudi Arabia” of wind turbines.

The Alliance also includes citizen lobbyists. One recent movement being pushed by old guard Republicans is a Carbon Tax that would tax oil, natural gas, and coal and distribute the proceeds to taxpayers – they estimate 2/3 of Americans would receive more money than they would pay in increased energy costs.

A former NOAA boss is reporting on “cook the books” effort to mix undependable ship-based ocean temperature readings with more reliable buoy temperatures.

Product Review: Vividia Ablescope VA-400

I'm a throwback, a dinosaur, a Luddite. I don't work on airplanes younger than me and don't deal with those modern metal-skinned planes. A couple years ago I finally upgraded to a flip phone. I'm also cheap. So the fact that I have a borescope amazes even me.

An exhaust leak during a compression check on the Cub put me over the edge. Was it a burned valve or just a bit of snark on the seat? Should I pull the cylinder or run it a while? I borrowed a \$10,000 turbine-inspection borescope and found a burned valve so the cylinder came off for repair, saving time and possible further damage. Playing with the scope suggested a lot of reasons to own one but the borrowed one was out of my price range.

I looked at alternatives and found the Vividia Ablescope VA-400 from Oasis Scientific; about \$200 from Oasis or Amazon. There is a VA-800 available for \$350 but it seems to be a tiny upgrade for the price. This unit plugs into a desktop, laptop, or tablet computer or into those big glass faced I-phone/ camera/ texting/ mind-sucking thumb exercisers most of you carry around. It has its own dimmable LED lights, takes still photos with a push button on the cord, makes movies, and fits nicely into a spark plug hole. The best part of all is the camera head will bend past 180 degrees and the picture quality is better than the one I borrowed. It won't do all that their Ten Grand unit does (it has a 5-foot snake for looking deep into turbines) but the VA-400 does a better job of looking backward at the valves in a reciprocating engine and the photos are sharper. I showed it to those guys and they immediately bought one for their shop.

I have used my scope to document an AD-required inspection of the inside bore of a crankshaft, locate a fuel leak in a wing, and look under floorboards inaccessible to a mirror and flashlight. I've looked inside musical instruments, motorcycle gas tanks, and the neighbor kid's nose. Fun and educational.

As a postscript to the burned valve incident above, I re-installed the repaired cylinder and ran the engine only to have the exhaust leak reappear an hour later. I was ready to pull the cylinder and send it back to the shop but instead borescoped the valve and saw some carbon stuck to the newly ground seat. Another hour's operation and the compression came back up. A quick look with the scope showed the seat clean.

And to answer your question...No, I don't get a kickback from Oasis; just thought you might benefit from my experience. Now if you'll excuse me, I have to borescope the axle bearings on the Conestoga wagon before I go to town for a new buggy whip.

- Mike Gugeler



Valve



Cylinder

CHICKEN WINGS®

BY MICHAEL AND STEFAN STRASSER



About this month's title art - you may have noticed the editor has been using images with a monthly theme - Happy New Year's for January, a sky-written heart for February. This month's images are a play on the old saying about March coming in like a lion and going out like a lamb (or the reverse). So we have the "Leo" nose art on a B-24H from the 834th "Zodiac" Bombardment Squadron, 486th Heavy Bombardment Group, 4th Bombardment Wing, 3rd Air Division, 8th Air Force (WWII). I could have pulled a VMF-214 Black Sheep Squadron reference for the lamb, but the "We're Baaad" motto on the logo for the VFS-214 Blacksheep Squadron stationed on Battlestar Galactica's Battlestar Phoenix was just too much fun. Thank you for indulging my tendency to geek out!

- The Editor



Membership Enrollment Information

(Needed for Current Roster & Chapter Correspondence)



MANDATORY INFORMATION: *If nothing has changed from last year, this is all the information required. We need EAA Membership # and EAA Renewal date to comply with EAA Charter and Chapter 43 by-laws.*

Date: _____	Annual Dues or \$25.00
Name: _____	Save! 5 years for \$100.00
National EAA Membership #: _____	Scholarship Donation (Optional) <u> .00</u>
EAA Membership Renewal Date: _____	Total .00

Are you a:

Technical Counselor	Yes ___ No ___
Flight Advisor	Yes ___ No ___
CFI	Yes ___ No ___

Scholarship donations are tax deductible.

*Please make check(s) payable to:
EAA Chapter 43
P.O. Box 1725
Broomfield, Co. 80038-1725*

NEW MEMBERS PLEASE COMPLETE - RETURNING MEMBERS OPTIONAL INFORMATION: *Supply any information that may have changed from previous year (if you want a field deleted from your record, please tag it).*

E-Mail Address: _____	Home Phone: _____ - _____ - _____
Spouse: _____	Cell Phone: _____ - _____ - _____
Street: _____	
City, State, and Zip: _____	

HOW WOULD YOU LIKE TO BE INVOLVED IN THE CHAPTER?

Participate in Young Eagles functions, either as pilot or volunteer?	Pilot	Yes ___ No ___
	Ground Crew	Yes ___ No ___
Arrange, Or Be, The Program For One Of Our Meetings? -----		Yes ___ No ___
Host A Chapter Meeting At Your Project? -----		Yes ___ No ___
Run for a Chapter Officer Post? -----		Yes ___ No ___
Interested in attending hands-on workshops (under consideration)		Yes ___ No ___

AIRCRAFT INFORMATION:

Note: Status: ----Built, Building, Restoring, Considering, etc.

<u>Make, Model</u>	<u>Status</u>	<u>Based At</u>

To keep costs down the monthly newsletter is delivered via E-Mail. We also send out periodic news items by e-mail.

Suggestions: Please provide any suggestion on things you would like to see the chapter improve on or provide in the future on to any of the chapter officers. The board will review suggestions.

2017 Chapter Officers

President	Ken Scott	303-674-7846
Vice President	Phil Brown	303-506-3886
Vice President	Jeff Jones	303-809-3994
Secretary	Val Gregory	303-908-1252
Treasurer	Myles Lee	720-295-8778

Board of Directors

Ken Scott (Chairman)
 Stan Specht**
 Scott Serani**
 Cliff Hasenbalg*
 Joe Gilmore*

(Note: *- 2 year terms expire end of 2018, **- 2 year terms expire end of 2017)

Volunteer Officers

Technical Counselor	Jim Sutton	303-598-4205
Technical Counselor	John Reuterskiold	303-881-3517
Technical Counselor	Bill Truax	303-249-2578
Technical Counselor	Phil Brown (fabric, wood & tube)	303-506-3886
Flight Advisor	Bill Mitchell	303-427-4025
Newsletter Editor	Val Gregory	303-908-1252
Young Eagles Coordinator	Cliff Hasenbalg	303-744-8180
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	Steve Paschke	303-451-8490
Safety Officer	Stephanie Wells	303-503-0147
Refreshments	John & Roxie Juul	303-466-2600
Audio/Visual	Herrill Davenport	303-460-7789
Scholarship Chairman	Eric Serani	303-918-5446
Scholarship Fundraising	(Volunteer Needed)	

CFI's in Chapter 43

Richard Brown	303-558-0793
Mark Davis	303-425-4080
Joe Gilmore	720-318-5100
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

Disclaimer

7 PM @ the Mt. Evans Room in the Terminal Bldg. @ Metro Airport (BJC)

Be aware that as always, in past, present, and future, any communications issued by Experimental Aircraft Association Chapter 43, regardless of format, and/or media used, which includes, but is not limited to, this newsletter and audio/visual recordings, is presented only in the context of a clearing house of ideas, opinion, and personal experience accounts. Anyone using ideas, opinions, information, etc., does so at their own risk. Therefore, no liability is expressed or implied by the Experimental Aircraft Association, Chapter 43, or any of its members. Any event announced and/or listed herein, except as noted, is done as a matter of information and does not constitute approval, sponsorship, control, or endorsement of said event.

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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.