



Mile High Flyer

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



Volume 45 Issue 1 On the web @ www.eaa43.org

January, 2018

President's Message

Welcome to our new chapter president, Phil Brown. Phil has been an active member of EAA since joining in 1976. In his first of 40 Oshkosh visits, he chose the Pober Pixie as his homebuilt project, taking only 37 years to complete it. He was an active member and held a number of offices in EAA Chapter 67 in the Indianapolis area before retiring to Boulder. In Colorado, Phil is active in American Red Cross, Boulder County Amateur Radio Emergency Services, and is training to be a tow pilot for Soaring Society of Boulder. He holds a CFI-I, and MEI certificate, and a Commercial Hot Air Balloon rating. Besides the A-65 powered Pixie, Phil owns and flies a Piper Comanche 180.



Next Meeting - [Saturday, January 13, 2018](#)

**6 PM cocktails & 6:30 PM Dinner at Colorado National Golf Clubhouse Restaurant
2700 Vista Parkway, Erie, Colorado**

*This is our annual banquet meeting and chance to honor and recognize
the volunteers who help to make Chapter 43 work for all of us.*

See the Chapter 43 home page (www.eaa43.org) for a link to Google Maps for directions; see the Banquet page (<http://www.eaa43.org/banquet.htm>) for banquet payment and a link to the reservation form. The reservation form is also on page 12 of this newsletter. It's not too late to get your payment (via PayPal or check) and reservation to the address on the form; if all else fails, bring both to the Banquet!

Upcoming Events Calendar

Submitted by *Don Smith*

2018 EVENTS

JANUARY

- | | | |
|-----|-------|--|
| Sat | 13 | EAA Chapter 43 Holiday Dinner, Master's Restaurant, Colorado National Golf Club, Erie. Cocktails at 6:00 PM, Dinner at 6:30 PM |
| Fri | 19 | EAA Chapter 301 Membership meeting, 7:00 p.m. |
| | 24-27 | Sebring FL 14 th Annual U.S. Sport Aviation Expo (SEF)
http://www.sportaviationexpo.com/ |
| Sat | 27 | EAA Chapter 301 Young Eagles Rally, FTG 8:00 a.m. |

FEBRUARY

- | | | |
|-----|----|---|
| Thu | 7 | AOPA Safety Seminar, Ramada Plaza, Northglenn, 7:00-9:00 p.m. |
| Sat | 10 | EAA Chapter 43 Membership meeting, BJC, 7:00 p.m. |
| Fri | 16 | EAA Chapter 301 Membership meeting, 7:00 p.m. |
| Sat | 24 | EAA Chapter 301 Young Eagles Rally, FTG 8:00 a.m. |

In this issue:

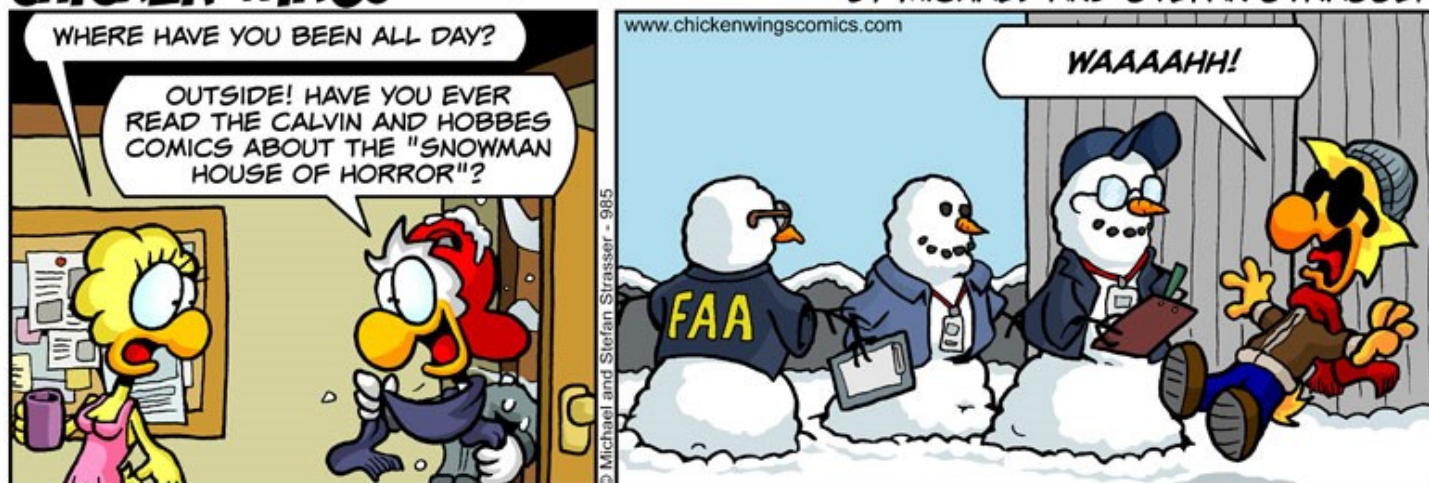
- Lots of sale ads for near-complete aircraft - if you were considering a project, how about one of these?
- The Chapter Banquet is coming up on January 13! **I've included the Banquet registration form on page 12**; a completed form and payment (via PayPal or check) are due to Chapter Treasurer Myles Lee at the December meeting or you can mail it to the chapter at the address on the form before December 15. Miss the dates? It's not too late! Pay via PayPal and mail in the reservation form, but act quickly!
- In addition, there's the signup form for the EAA National Leadership Boot Camp to be hosted by Chapter 43 at our usual meeting space at BJC from 8 to 5 on Saturday January 27th. I know a couple of months ago about 10 folks raised their hand in the meeting when asked if they'd like to attend, and as of December 9th, 22 people had signed up - so get going, folks!
See the flyer on page 11.

Since I currently don't have a second set of eyes to review the newsletter, I'd like to ask all of you to help find my boo-boos for cookies! Dave Sherk found something last month before the December meeting, and Stan Specht and Thomas Schibli have found a couple of things since - but you still have a chance for cookies in January if you find something in this newsletter. Let me know at newsletter@eaa43.org.

If you'd like to contribute a newsletter article on a trip, a tool, component, or aircraft review, a how-to for build or test, historical or ANYTHING airplane or chapter related, don't be shy. I'm still struggling with input that's not electronic, but you can email newsletter@eaa43.org with anything ya got in electronic format. I haven't run in to any file size limitations, either, so don't let the size of your submission make you reluctant. Thanks in advance for your help!

CHICKEN WINGS®

BY MICHAEL AND STEFAN STRASSER



Turns out the comic authors are Calvin and Hobbes fans (your newsletter editor is too). Now if we can just get some snow...

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

Want Ads



Custom Embroidery
Valerie Wait
 720-352-2630
 1705 Flemming Drive
 Longmont, CO 80501
 email: valandjimw@yahoo.com

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!

Want Ads Cont'd

From: **De Strelow** <de.strelow.1957@gmail.com>

Date: Tue, Jun 27, 2017 at 6:13 PM

Subject: Hatz CB-1 plans and project for sale

Dear EAA Chapters

Hoping you may be able to help me. My name is De Strelow, I live in Buena Vista, CO. I have a welded fuselage, wood and tubing plus the plans to build a Hatz CB-1 experimental aircraft. My late husband, Wayne Strelow started the project back in the late '90's and never finished it. He wanted to learn to fly and that he did. He owned and flew a Quicksilver ultralight and then went on to earn his VFR wings in January 2001. He was for several years involved in the local EAA chapter in Salida, CO. I contacted Jim Pinkerton with the Hatz Biplane Assoc. and he suggested I send an e-mail to the Colorado chapters of the EAA to see if there might be someone out there looking for a project. Jim came up to BV last Saturday to see the project himself, took notes and pictures. My husband retired from DOC in April 2009 and passed away in July 2013 after a short 4 month battle with esophageal cancer. I am now looking at relocating and I'm working on selling his personal items. I have included some pictures and a parts list and price. I'm negotiable on the price, just need it out of the upstairs garage workshop. Thank you for any assistance you can provide.

Sincerely,

De Strelow

29994 CR 354

Buena Vista, CO

[719-395-8410](tel:719-395-8410) H

Editor: See following pages for addition description and photos. FOR REFERENCE, here's a photo of a completed Hatz CB-1.



Want Ads Cont'd

For sale: Hatz CB1 Plans/Material/Project

#773 Plans + Material for \$2100 OBO

Must sell, space and well being force sale. Price is material cost at time of purchase, not new price. Includes Oxy/Acetylene welded frame, rib jig and 15 completed wing ribs T88 glued. Material always stored inside garage. All steel is from Aircraft Steel in Erie, all spruce is from Aircraft Spruce.

Steel (all is 4130N): 54'-.1875x.0625; 66'-.343x.035; 23'-.50x.035; 9'-.625x.035; 8'-.625x.049; 47'-.75x.035; 22'-.75x.049; 18'-.875x.035; 18'-.875x.049; 21'-.875x.065; 22'-1.375x.035; 7'-2.023x.875x.049 Streamline.

Wood: Hatz CB-1 Complete Spruce Kit P/N 02-04800

QTY	Size
700 feet(~300 ft remaining)	1/4" x 1/4" x 48" min. cap strip
4 pieces	5/8" x 3/4" x10' leading edge
8 pieces	2-3/32" x 1/8" x 6' center section bow
32 pieces	1/8" x 3/4" x 61" wing tip bow
32 pieces	1/8" x 3/4" x 23" aileron tip bow
30 feet	3/8" x 3/8" randoms - corner blocks, stiffeners
30 feet	1/2" x 1/2" randoms - corner blocks, stiffeners
30 feet	5/8" x 5/8" (4pc. X 4' bal randoms) - wing walk
60 feet	1/4" x 1/4" 90° triangular corner block
1 piece	1" x 6" x 24" filler block
4 pieces	1/4" x 1" x 6' stringers
4 pieces	3/4" x 4-7/8" x 10' front spar-bevel 10° top/3° bottom
4 pieces	3/4" x 3-11/16" x 10' rear spar-bevel 10° top only
1 piece	3/4" x 4-15/16" x 4' 6" front center section-bevel 10° top only
1 piece	3/4" x 3-3/4" x 4' 6" rear center section-bevel 10° top only
4 pieces	1/2" x 2-7/8" x 5' 8" aileron false spar
4 pieces	1/2" x 2-9/16" x 5' 8" front aileron spar
4 pieces	1/2" x 1-3/16 x 5' rear aileron spar

NOTE: Spars do not come beveled.

Want Ads Cont'd

Hatz CB-1 Cont'd



Want Ads Cont'd

Stits SA3B Playboy N1294V

Recently appeared in the weeds outside the fence at "Frightmare", near Old Wadsworth and 108th. Contact Karl Sutterfield, kasutt@blindhog.com for more information.

According to the FAA Registry Inquiry, N1294V is an amateur built experimental powered by a Lycoming model O-290 Series 140 hp piston engine. Its airworthiness certificate is dated 09/18/86.



Above is an example picture of the single seat low *folding* wing aircraft in flying condition.

MILE HIGH EAA Chapter 43
December 9, 2017

Chapter President Ken Scott called the meeting to order at 7:00 pm.

GUESTS Please tell us a little about yourself
No guests tonight.

ANNOUNCEMENTS

- Glen Grove has an engine – see the Project Reports for more detail.
- Newsletter publisher Val Gregory presented cookies to Ken Scott and John Reuterskiold for editing the December newsletter.
- Ken announced that board member Joe Gilmore is starting a new job in January, providing primary training to Air Force cadets, and is resigning his board position with a year to go. See Ken during the break if interested in the position.
- Phil Brown wants everyone to wear name tags and passed around a form to order them including the member name, aircraft, and N-number (if space allows).

ANECDOTE OF THE MONTH

Dave Shenk told a joke wherein God appears to a motorcyclist riding along a California beach and gives him one wish. The biker asks for a bridge to Hawaii, but God tells him that's too materialistic. The biker thinks a little more and asks for an understanding of women. To which God replies "Do you want that bridge to have 2 or 4 lanes?"

APPROVAL OF SEPTEMBER MINUTES

Ken Scott moved for approval, Scott McEwen seconded and the minutes were approved.

TREASURER REPORT

Balances are \$11,054 for the Chapter, \$1759 for Young Aviators, \$500 for Young Eagles, \$2000 for the 2017 Scholarship fund, and \$13,808 for 2018 Scholarship.

TRIP REPORTS

- Paul Hahn flew to Laramie with flight following from Front Range – they were VERY attentive, reporting all surrounding traffic. Nice weather between fronts. Paul used his ADS-B Out to map the flight on ForeFlight. He also flew out US 285 to Great Sand Dunes National Park, east to La Veta, then north up the Front Range. Alamosa publishes ATF for wind. Paul's Vans RV-10 topped out at 12,500' altitude going westbound, and he noticed lots of outlanding spots. Stephanie Wells suggested pilots always check winds, if the wind is 30 kts or greater out of the west, it'll be very bumpy.
- Phil Brown went to Advanced AeroTechnologies at the Greeley Airport for an ADS-B check.
- Dave Shenk took a 95 year old friend in a wheelchair up in a Beechcraft Baron. Keith, the Baron's owner, is happy to take others in a similar situation.

PROJECT REPORTS

- Glen Grove is restoring a Stinson 108-2 that he purchased as a firewall-aft and found an engine north of Vancouver. No issues coming through Customs, and the engine includes everything but a propeller.
- Steve Paschke has started the engine on his Adventure 333, and is also working on the landing gear lock.
- Thomas Schibli has ordered his KitFox kit, delivery is expected in April.

Meeting Minutes Continued

SAFETY REPORT

Stephanie Wells – a friend recently had a mid-air collision with a drone during the downwind leg of his landing approach. If you fly a drone, the FAA wants you to register it and get a license. If you're already a licensed pilot, a UAS (unmanned aircraft system) license only requires an online test and CFI concurrence (easy!) There are 2 categories and 2 classes of UAS; the lowest or hobby class is not controlled by the FAA. Commercial and government (including military) use requires a license, as well as drones in excess of .55 pounds. UAS are required to be kept in sight of the operator, which can be difficult with small models. Flight is limited to under 400' AGL, and no flight is allowed within 5 miles of heliports or airports unless coordinated. There is, however, no enforcement and users are ignorant of the rules, which in any case are still in flux. In closing, Stephanie is leaving in January for NGO service with Mayan Families in South and Central America for six months.

SCHOLARSHIP

Scott Serani – the first candidate for a 2018 scholarship has been interviewed out of a large candidate pool, and the remainder will be interviewed the third weekend in December. Selection will occur in February with scholarships announced at the May picnic.

YOUNG EAGLES

Cliff Hasenbalg - All Young Eagle flights are in the EAA logbook. He has forms for individual flights for those pilots still flying kids who couldn't make rescheduled events, and reminded the pilots to make sure the forms are filled out and signed by parents.

YOUNG AVIATORS

Scott Serani – Young Aviators are in winter maintenance mode with the B25 disassembled and “all over the hangar”.

TECH COUNSELORS

No report

TECH REPORT

John Evens discussed the ELT for his KitFox, purchased 5 years ago so now it needs a new battery at a cost of \$159 for an assembly that includes 4 D-sized lithium ion cells. The cells can be purchased separately at a much reduced cost, but the ELT manufacturer says it's not airworthy if opened.

FLIGHT ADVISORS

No report

NEW BUSINESS

Scott McEwen solicited ideas for meeting programs. Maybe drones? See Scott McEwen or Cliff Goldstein with suggestions.

OLD BUSINESS

Annual Chapter Awards Banquet Jan 13, 2018 6:00 PM
 Colorado National Golf Club (formally Vista Ridge)
 Member and 1st guest pays \$20 each. Additional guest \$30/each
 Reservations and payment by 15 December 15, 2017 (Jan 1 okay)
 Check the December and January newsletters for reminder and details

EAA “Leadership Boot Camp”, Chapter 43 hosting
 Saturday, January 27, 2018, 8 AM to 5PM Mt Evans Room @ KBJC
 If you have an interest in helping the chapter and volunteering please sign up. Registration still open as of Jan 2, Google “EAA Bootcamp” + 2 clicks to sign up.

Meeting Minutes Continued**OLD BUSINESS Continued**

Chapter Dues - Please pay by Dec 15th - can send in with reservations and payment for awards banquet.

Respectfully submitted,
Val Gregory, EAA Chapter 43 Secretary

TONIGHT'S PROGRAM

Cliff Goldstein gave a talk on his EFii electronic fuel injection and ignition system

“Make your AIRPLANE run as well as your CAR.”

Cliff introduced Aaron as an EFii expert, Aaron is building an RV-8 with EFii. When it was time to choose an engine for Cliff's RV-14, he was considering a Lycoming IO-390 and a Superior XP-400. He assumed he'd have standard fuel and ignition until Aaron suggested EFii. In a standard engine, the magneto (in part) drives the requirement for runup because magnetos do fail. Cliff showed 2 fuel injection systems and went through his decision tree.

1. Standard system – continuous flow, regulated by pilot. Noted that lawn mowers have better magnetos than aircraft engines.
2. E-mag/P-mag – use manifold pressure to advance or retard ignition. Many folks use both standard and P-mag.

Standard systems can be hard to start when hot due to vapor lock. Jeff Jones noted that he uses a bypass valve to shunt hot fuel to the tank. Need to think about safety of components; aircraft duty cycles are more severe than automotive duty cycles! Car engines run at peak or lean of peak; airplanes do too, but may stumble more due to uneven fuel delivery. Cliff has dual ECUs, must switch if one fails. Also dual fuel pumps. Airline pilots have to understand their systems so they can mitigate failures and EFii systems are a little more complex than magneto systems. There was a question about running lean of peak; Cliff has experimented at running lean to increase fuel mileage while delivering ~30% power. Cliff recommended Protek Performance (www.flyefii.com); the contact Robert Paisley is VERY responsive and helpful. Cliff showed a slide of an EFii system with its 32 components. Can start with ignition only and upgrade to injection later. Systems are available for many Lycoming, Continental, and Superior engines. John Evans asked if the O₂ sensors got lead coated – Cliff responded that the sensor location near the engine outlet helps but the sensor may require replacement if O₂ information is desired. Someone asked about the maintenance schedule for components – similar to a car system (i.e. minimal other than fuel filters). Dave Shenk asked if the injectors are automotive and Aaron confirmed that they are. Dave followed up with a question about the accuracy of fuel use and Cliff said it's very accurate except in very slow flight.

EAA One-Day Leadership Boot Camp

January 27, 2018, 8am-5pm

Mount Evans Room, Rocky Mountain Metro Airport Terminal Building

Chapter 43 will host a one-day version of the 2-day Leadership Boot Camp held at EAA National headquarters in Oshkosh. The chapter usually sends one or two chapter officers annually to the Boot Camp, and travel costs to the event are one of the chapter's largest expenses. The event will be open to local and regional EAA chapters, with an attendance of 30-40. Chapter President Ken Scott contacted RMMA to determine facility availability and costs, and our usual meeting room is available for free. EAA National will provide lunch, and Chapter 43 will provide snacks and coffee. Friday and Saturday night dinner (at cost) with the EAA National trainers is also available. Ken Scott, Scott Serani, Steve Beach, and Stan Specht have volunteered to help hold the event. Ken asked about interest during the October member meeting, and about 10 folks raised their hands. [See the flyer on page 11 to sign up!](#)

You're Invited!
EAA Chapter Leadership Boot Camp
Saturday, January 27, 8 a.m. - 5 p.m. |Broomfield, CO

Register for this FREE training session!

There is still time to register for the [EAA Chapter Leadership Boot Camp](#) that is being hosted by Chapter 43 in Broomfield, CO (near Denver, CO)!

Our one-day training sessions are designed to make you a stronger chapter leader. Chapter-related subjects include: business fundamentals, recruitment, fundraising, public relations, EAA resources, and more.

Meet and chat with EAA staffers, and other chapter leaders from your region.

Arrive on Friday night to enjoy dinner with the EAA chapter staff!

Register Now →

(<https://goo.gl/dzco1d>)

SCHEDULE OF EVENTS:

Friday: Dinner with the EAA chapter staff

Saturday: One-day training session

ADDRESS:

Rocky Mountain Metro Airport (KBJC)
11755 Airport Way
Broomfield, CO 80021

QUESTIONS:

David Leiting, Chapter Outreach Specialist
920-426-6116 or dleiting@eaa.org

EAA CHAPTER 43 BANQUET SIGN UP

ANNUAL CHAPTER BANQUET, JAN. 13, 2018

COCKTAILS AT 6:00 PM, DINNER AT 6:30 PM

COLORADO NATIONAL GOLF CLUBHOUSE RESTAURANT

2700 VISTA PARKWAY, ERIE, CO.

\$20 PER MEMBER, FIRST GUEST \$20 (ADDITIONAL GUESTS \$30.00)

NAME _____

NO. IN YOUR PARTY _____

AMOUNT INCLUDED \$ _____ (PLEASE INCLUDE FULL AMOUNT) PHONE NUMBER _____

EMAIL ADDRESS _____

PLEASE PRINT OUT AND MAIL THIS FORM AND YOUR CHECK (MEMO ON CHECK THAT IT IS FOR THE BANQUET) MADE OUT TO:

EAA CHAPTER 43

PO BOX 1725

BROOMFIELD CO 80038-1725





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)	____.00
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 (unless otherwise requested). We also send out periodic news items by e-mail.

2018 Chapter Officers

President	Phil Brown	303-506-3886
Vice President	Cliff Goldstein	720-280-2916
Vice President	Scott McEwen	303-895-5058
Secretary	Val Gregory	303-908-1252
Treasurer	Myles Lee	720-295-8778

Board of Directors

Phil Brown (Chairman)
 Cliff Hasenbalg**
 Open Position**
 Jeff Jones*
 Zach Malone*

(Note: *- 2 year terms expire end of 2019, **- 2 year terms expire end of 2018)

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
Technical Counselor	Stewart Bergner	303-229-7799
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

Phil Brown	303-506-3886
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
Mike Sutton	720-515-5269
Stephanie Wells	303-503-0147

Mile High EAA Chapter 43

Disclaimer

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EAA Chapter 43
P.O. Box 1725
Broomfield, CO 80038-1725

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.