

MARCH 2013



EAA CHAPTER 145

SINCE 1962



Martt Clupper

Chapter Meeting: Saturday, March 9, 2013 – 10:00 am
Riverview Airport (08C) in meeting hangar



Flying in the Backcountry of Idaho will be the topic for the March Meeting. Herb Harney will tell us about the Upcoming fall trip planned. Anyone interested in mountain flying or backcountry adventures should attend.

INSIDE THIS ISSUE

- 2 E-15 Ethanol
- 3 President's Corner
- 3 April's Mtg - AirZoo
- 4 K-zoo Air Zoo Display
- 5 Website of the Month
- 6 Upcoming Events



Last month, Ron Walters shared his experiences while building a Glasair IIRG.....twice. It was a great story of dedication and perseverance. If you every thought of giving up or giving in, think of story Ron Walters told.



Chapter Website: <http://www.145.eaachapter.org/>

E-15 ETHANOL

The EPA in June officially approved the sale of E15 after receiving a waiver request from



pure-gas.org

The list of ethanol-free gas stations in the U.S.

producers interested in expanding the use of corn-based ethanol. Despite objections by auto manufacturers, the EPA approved the use of E15 gasoline in flex-fuel vehicles and 2001 model year and newer cars, light-duty trucks and medium-duty passenger vehicles and SUVs.

Many groups have expressed concern over this development. Unsuspecting consumers using E15 could end up with engine problems that might not be covered by their vehicles' warranties. Five manufacturers (BMW, Chrysler, Nissan, Toyota and Volkswagen) are on record saying their warranties will not cover fuel-related claims caused by the use of E15. Eight additional automakers (GM, Ford, Honda, Hyundai, Kia, Mazda, Mercedes-Benz and Volvo) have stated that the use of E15 does not comply with the fuel requirements specified in their owner's manuals and may void warranty coverage.

The only vehicles currently approved by automakers to use E15 are flex-fuel models, 2001 model-year and newer Porsches, 2012 model-year and newer GM vehicles and 2013 model-year Ford vehicles. These approvals extend only to cars, light-duty trucks and medium-duty passenger vehicles (SUVs). The use of E15 is expressly prohibited in heavy-duty vehicles, boats, motorcycles, power equipment, lawn mowers and off-road vehicles.... and airplanes.

Additional concern is the single-dispense hose with multi-grade fuel choice. The previous customer may choose E15, then you come along and want E10 but you get a bunch of E15 that was contained in the hose system.

Ethanol-added gasoline (E10) goes into solution in the ethanol, no problem. At least until it reaches a certain concentration, at around a half a percent water, although it varies with temperature. Lower temperature = less water in solution before phase separation. When the amount of water the alcohol can absorb reaches its max, either because more water is entering the tank, or the temperature drops, the water—which is denser than the gas—drops out. And it takes all the alcohol with it. This cloudy, bilious looking glop is incombustible.

It's worse. The gasoline above the water/alcohol glop has much lower octane than it used to, because the petroleum company has blended the lowest octane gasoline it could, and boosted the octane rating back to the 87 you paid for up with 113-octane ethanol. Your engine won't run on the separated phase, which is lingering on the bottom of the tank, right where the pickup is. It'll start (with difficulty) and run on the gas above it, but the octane will be lowered, perhaps far too low for your engine.

So what can be done?

1. Seek out stations that still sell 100% gasoline (see pure-gas.org above) or see an interactive map of ethanol-free stations <http://www.buyrealgas.com/Michigan.html>
2. Ask the gas station if they stir the tanks, and test for water present – to avoid phase separation.
3. Follow manufacturer's recommendations for fuel storage:
<http://engines.honda.com/parts-and-support/fuel-recommendations>

Article on ethanol:

<http://www.popularmechanics.com/cars/alternative-fuel/biofuels/e15-gasoline-damage-engine>

Airports with Mo-Gas <http://www.flyunleaded.com/>

Note: It's a brand new year, that means it's time to send in chapter dues. If dues are not paid by Mar 1st, you will be considered inactive and have the newsletter discontinued. Major upcoming expenses for the chapter are \$2400 (Hangar rent), \$470 (EAA National Registration), \$460 (Hangar Propane). Only the propane can be deferred. Both Hangar rent & National registration are due in late 2012.

PRESIDENT'S CORNER

You meet a lot of friendly people in the field of aviation. For example, about 30 years ago, I was flying to Georgia with Kel DeVries and he had to land in Guntersville, Alabama. We asked where we could get something to eat. The man in a rocking chair said, "A couple of miles down the road"; then he added, "The keys are in the pick-up." As we bounced along in the truck, I commented that it was trusting of the airport man to let us take his truck, Kel pointed out that we had left a \$30,000 A/C back at the airport. Right... but it still was very friendly of him to offer his truck to a couple of strangers.

Airports are still friendly places. Last week Bruce and I went to check out the Air-Zoo at the invitation of Ron Harvey. He is a member of EAA 221, Air-Zoo docent, and restorer of A/C for the Air-Zoo. Ron is also very friendly. He took the time to come to the Air-Zoo, show us around, and explain the history or unique points about the aircraft just so we would have a good understanding of what our chapter can expect when EAA 145 visits the Air Zoo next month.

Yes, airports are friendly. Just look around Riverview, FRIENDLY, in capital letters.

Dick

NOTICE

Last month the Green Falcons Flying Club's C-172, N12989 was flipped over on landing, sustaining significant damage. The estimate to repair the A/C was \$100,000. The A/C was declared "salvage" and Avemco paid the hull insurance. The A/C now belongs to Avemco.

HANGER SPACE

The chapter hanger is available for anyone who has an aviation project to work on. Contact Dick Foster for details (contact info on next page)

April Meeting – Kalamazoo AirZoo

Our program for the April 13 meeting of Chapter 145 will be a guided tour of the Air Zoo Museum at the Kalamazoo/Battle Creek Intl. Airport (AZO). If you haven't experienced this excellent venue in the last few years, you really must go there with us and get your "airplane fix". The place has been largely re-done and although somewhat different in tone and content, it is as good as EAA's museum at Oshkosh. The Air-Zoo has something of interest for the whole family. In addition to the very well done aircraft and related equipment displays, it has aircraft theme rides and play room for the kids, a very extensive room depicting the WASP program during WWII for the women, and a WWII Guadalcanal artifact display and explanation area for history buffs. There's a 4-D theater and a very realistic space shuttle and aerobatic simulators with 3-D motion capability. Our guided tour will provide opportunities to experience the features mentioned above and the possibility of having a reasonably priced lunch overlooking the main museum display hangar.



A partial list of aircraft and related items on display: **William Benedict's Mystery Ship**, P-40 (pink), F-14 Tom Cat, Wild Cat, Hell Cat, SR 71 (Black Bird), F-4 Phantom, F-8 Crusader, Christian Eagle, XP-55 (Pusher prop fighter Prototype), Waco UPF 7, P-39 AeroCobra, Sopwith Camel, Aero Engines (Rolls Royce, Allison V-12's and others), B-25 (painted like the Doolittle Raiders), Restoration Shop (with several projects in process)

Fly-ins and Drive-ins are welcome. Family attendance is encouraged. Admission is \$10.00 for adults, children are free. Some of the features (like the shuttle ride and simulators) require an extra charge of \$4.00, but a pass for all paid displays can be purchased for \$6.50.

Be sure to attend the March 9 meeting for further information and preview pictures.



Aircraft on Display

1 EAST WING

Boeing Stearman N2S-5 Koyder	Naval Aircraft Factory Yellow Pearl
Douglas AD-4NA Skyraider	North American AT-6 Texan
Douglas C-47 Skytrain	North American T-28 Trojan
Douglas SBD-3 Divebomber	Pittsboro HU-3 Retriever
Fairchild PT-23 Corsair	Ryan PT-22 Recruit
Goodyear FG-1D Corsair	Schweizer LNS-1
Grunman F6F-5 Hellcat	Timn N211 Tiber
Grunman FM-2 Wildcat	Valve BT-13A/SNV-1 Valiant
Hiller UH-12	Waco CG-4A Flying JEEP
Loisler-Koffman TG-4A	

2 BEGINNINGS

Curtiss JN-4 "Jenny" (Scale Model)	SPAD VII (Replica)
Fairchild 24-K Forwarder	Travel Air Mystery Ship (Replica)
Fokker TriPlane (Replica)	Waco INF
Hughes Baby Bullet	Waco VPE
Howard GH-2 Nightingale	Wolf Boredom Fighter
Montgolfier Balloon (Model)	Wright Flyer (Replica)
Murphy's Renegade Spirit	

3 MISSIONS

Aerona L-38 Defender	Lockheed P-38 Lightning (Scale Model)
Bell P-39 Airacobra	North American B-25J Mitchell
Curtiss XP-55 Ascender	Piper L-4 Grasshopper
Grunman G-73 Malard	Republic P-47D Thunderbolt
Hippano HA-117B Budion	

4 SENTINELS AT SEA

Bell AH-1J SeaCobra	McDonnell Douglas F/A-18A Hornet
Douglas A-4 Skyhawk	Youghit F-8J Crusader
Grunman F-14A Tomcat	

5 JOURNEYS BEYOND

Lockheed SR-71B Blackbird

Curtiss P-40N Warhawk

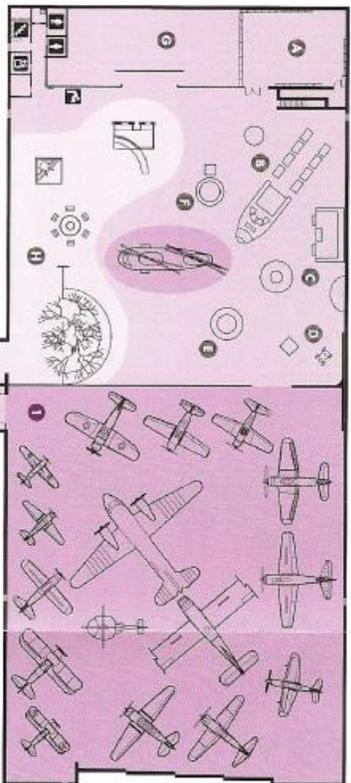
6 LOBBY

- Elevator
- Starway
- Drinking Fountain
- Women's Restroom
- Men's Restroom
- Kitty Hawk Cafe
- Coat Room
- Information Desk

*Not all aircraft within facilities may be available for viewing and are subject to change without notice.

Air Zoo Campus

See the world's only SR-71B Blackbird and XP-55 Ascender!



Rides, Attractions & Exhibits

EAST WING

- A** Library
- B** Space Shuttle Replica & Space Suit
- C** Destiny Module, Working in Space Module & Cupola
- D** Moon Rock & Lunar Rover
- E** El Kabong
- F** Magic Planet
- G** Women in Aviation & Space Exhibit
- H** Space: Dare to Dream Exhibit
- I** World War II Artifacts

MAIN EXHIBIT FLOOR

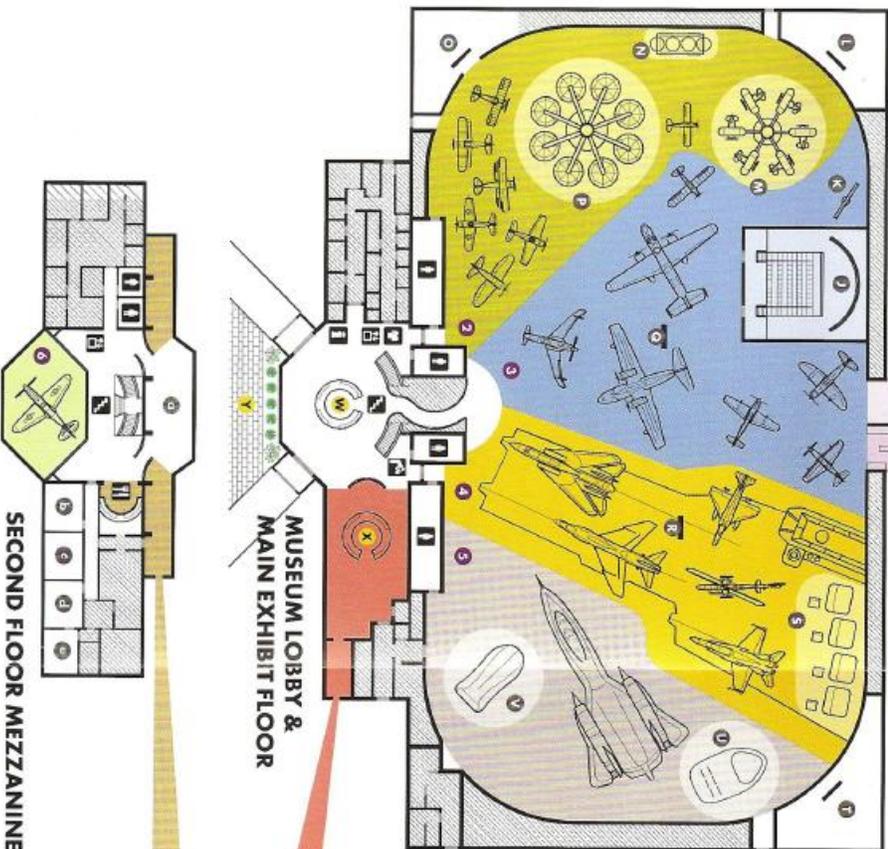
- J** Missions 4D Theater
- K** Paratrooper Jump
- L** Guadalcanal Memorial Museum & Michigan Aviation Hall of Fame
- M** Flying Circus Bi-Plane Ride
- N** Century of Flight Ferris Wheel
- O** Kids' Korner
- P** Montgolfier Balloon Race
- Q** World War I Kiosk
- R** World War II Kiosk
- S** FullMotion Flight Simulators
- T** Traveling Exhibit Hall
- U** Mission to Mars/Corsair Challenge
- V** 3D Space Shuttle Ride

MUSEUM LOBBY

- W** Ticket Counter
- X** Fly Buy Museum Store
- Y** Memorial Plaza

SECOND FLOOR MEZZANINE

- 11** Kitty Hawk Cafe & Seating
- a** Observation Deck
- b** Warhawk Meeting Room
- c** Corsair Meeting Room
- d** Wildcat Meeting Room
- e** Parish Boardroom



SECOND FLOOR MEZZANINE

WEBSITE(S) OF THE MONTH

HOG WILD ABOUT ANYTHING THAT FLIES!



AIRPIGZ™

LOVE TO FLY

Matt 7:13-14



Avspecs Mosquito
In Flight CoolPix



EAA Logo Poll:
Retro vs Current



Red Bull Stratos:
How Fast Did Felix Go?



CLICK HERE FOR OVER
240 'MUST SEE' POSTS



Four Generations In
One Aeronca C-3



Rare Bear CoolPix:
Reno 2012



Print, Fold and Fly the
Perfect Paper Airplane

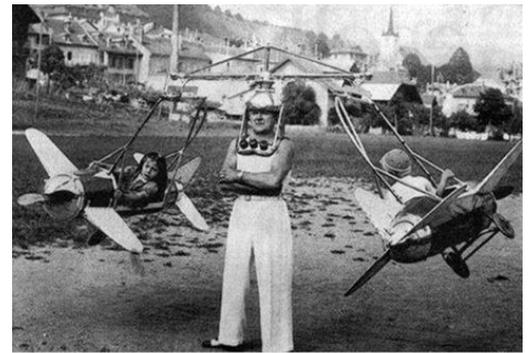
home
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newsletter
caption contest
coolpix
why airpigz
photo studio

AIRPIGZ.COM

This guy really, really likes aviation. He blogs just about day. There are over 1000 entries. It was created by Martt Clupper. He has been running this site for around 4 years. Martt's entries run the gamut from ultralights to the space shuttle, from Reno racers to the grassroots backyard flyers. Be sure to check out the Archive section. You can do a search on your particular Area of interest.

One of my favorites is the Caption Contest: Martt displays an aviation related picture, and the most popular caption wins a bacon sandwich at the next Oshkosh event. I came in second place on my entry...lost out some great bacon.

At Oshkosh, he calls his campsite "Camp Bacon"... And he hosts a couple bacon parties during the week, so next time you're at Oshkosh say 'hello' to Martt.



Pedal harder, kids...I'm still on the ground!



Aeronautical Charts



Airports



Charts

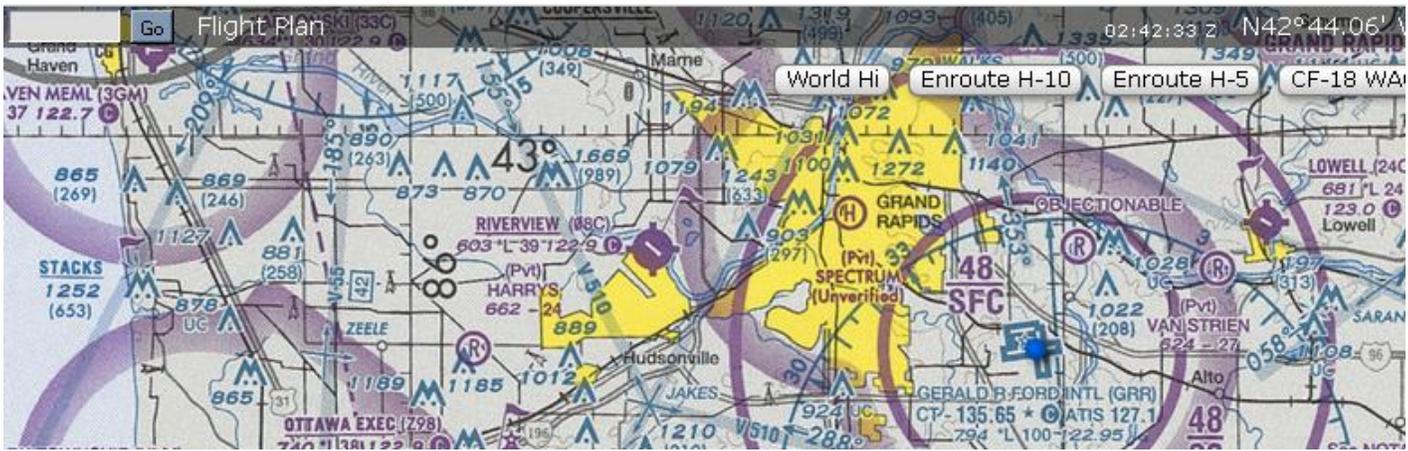


Forum



Fuel Prices

Buy & Download



SKYVECTOR.COM

SkyVector is a popular and easy way to view aeronautical charts online. Always current, and always free, FAA Sectional Charts are used for VFR flight planning. One can use the site as a planning tool – just click the 'Flight Plan' and enter airports separated by a space; it draws a vector, gives distance, and time enroute. It also has WAC charts, enroute charts, and close-in big city charts. Hover over an airport with weather reporting, and a pop-up shows you the conditions. The site also shows TFR's visually. It has fuel prices too... but that feature looks a bit limited in scale. It's fun for doing "what if" missions (Bahamas, North Pole, Hawaii, etc)

UPCOMING EVENTS

March 9	Chapter Meeting – Herb Harney – Mountain Flying	
April 9-14	Lakeland, FL	Sun-N-Fun
April 13	Chapter Meeting – Kalamazoo Air Museum Trip	
May 11	Chapter Meeting – Ron Walters – Owner Main't Under Parts 61 & 91	
May 18		International Learn to Fly Day
May 18	Rapid Air (KGRR)	W.Mich Flight Academy– Young Eagles Event
June 8		International Young Eagles Day– Young Eagles Event
June 8	Riverview (08C)	W.M.F.A. Pancake Breakfast
Jun 9	Ann Arbor (KARB)	EAA Chapter 333 Pancake Breakfast
June 15	Greenville	Greenville Area Aviation – Young Eagles Event
Jun 15-16	Ypsilanti, Willow Run(KYIP)	Thunder over Michigan Air Show
June 22	Grand Haven	EAA Chapter 211 – Young Eagles Event
July 3-7	Battle Creek	Battle Creek Balloons & Airshow
July29-Aug4	Oshkosh, WI	OSHKOSH!!
Aug 6-10	Mentone, IN (C92)	Gyrocopters & Paramotors Convention
Aug 17-18	Chicago, IL	Chicago Air & Water Show
Sept 13-16	Idaho	Idaho Backcountry Tour

If you know of events that should be on the event calendar, please e-mail them to me

If you would like to be on the e-mail list for meeting and event reminders, or if you would like to receive the newsletter electronically, which is full color and delivered days before the print version... please send your e-mail address to:
randall.houtman@dematic.com

The 2012 Officers for EAA145:

President, Dick Foster
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 Newsletter Editor, Randy Houtman
 (913-5908 randall.houtman@dematic.com)
 Website Editor, Bill Willyard
 (wgwillyard@att.net)

Treasurer's Report:

Financial Info for Jan NL
 (As of Feb 28th)

Cash: \$163.56	Checking: \$30.12
Savings: \$1079.09	Total: \$1272.77

EAA CHAPTER 145 MEMBERSHIP APPLICATION / RENEWAL FORM
 DUES ARE \$35.00 PER YEAR – JANUARY 1st to DECEMBER 31st

Name _____ Co-Pilot / Spouse _____ Address _____ City _____ State / Zip _____ e-mail address _____ Home Phone _____ Work Phone _____ National Membership # _____	Aircraft Owned _____ _____ Projects / % Complete _____ _____ Bring this form to the next meeting or mail to: EAA Chapter 145 Treasurer 6962 Bridgewater Dr. SE Grand Rapids, MI, 49546
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