

June 2016



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# EAA CHAPTER 145

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SINCE 1962



**Chapter Meeting: Saturday, June 11, 2016 – 8:00 am  
Riverview Airport (08C)**

## CHAPTER MEETING

No normal chapter meeting this month – However, we are supporting and flying Young Eagles in coordination with the West Michigan Flight Academy. (see flyer at end of newsletter)

There was a conflict with scheduling, so Roger Brown and his Howard DGA-15 will be visiting in August (weather permitting) And next month a tour of the control tower is being planned at GRR.

If you want to help with the W.M.F.A. Young Eagles, there are volunteering opportunities – and breakfast is provided!! Let Dick Foster know if you are available to help.

## INSIDE THIS ISSUE

- 1 Prez Corner
- 2 Google ADS-B
- 3 EAA Logo
- 3 USAF Museum
- 4 Upcoming Events

## PRESIDENT'S CORNER

The While I was preparing for the Young Eagle activities for the WMFA Fly-In, I came across an article by Michelle Kunes, EAA Young Eagles Program Coordinator and would like to share some of Michelle's thoughts and ideas with you. Read and enjoy.

*Recently I received a message from a volunteer sharing a thank-you note from a young man he had flown as a Young Eagle. The young man was thanking him for all the time and money spent on taking him flying and now he has his dream job of becoming a captain on an airline. He said he learned from the pilot that the best things in life are freely given to those who can never give it back. This taught him to push himself to excellence, not only to become a pilot but also a better person.*

*What a heartfelt amazing tribute to what I think each and every one of you does every time you engage in the Young Eagles program. The simplicity of the program remains the same - a pilot taking a young person for a flight. It's the results that really carry the impact! We owe you all a debt of gratitude we can never repay.*

Let's help introduce some young people to aviation this Saturday. See Ya, Dick

## YOUNG EAGLES

This Saturday, June 11, the Chapter will help with the West Michigan Flight Academy annual Fly-In, with various activities at Riverview. The Greenville GAAA Young Eagle day is next week on Saturday June 18 and the Wings of Mercy will be on August 27. If you are interested in helping at any of these activities, let me know. Thanks, Dick

## EAA145 HANGAR

- Hangar space is available for anyone working on a project.
- The Chapter now has a form for members to fill out if they want to put a project in the hangar. Contact Dick Foster for details.

## Google's low cost ADS-B

In case they passed you by without notice – and it's quite likely they did – the announcements that retail giant Walmart and Silicon Valley technology-disrupter Google are getting involved in the Automatic Dependent Surveillance... (ADS-B) system manufacturing industry are being viewed as game changing by folks in the large-scale commercial UAV market, and with good reason.

In a nutshell, ADS-B is a real-time aviation data broadcast ecosystem that allows aircraft to send and receive critical location information. It is "automatic" in that it requires no pilot interaction, and it is "dependent" in that it requires transmission and analysis of aircraft data to work. The system is one of four components in FAA's proposed Next Generation Air Transportation System (NextGen).

ADS-B systems feature two mechanisms, the foremost of which (for drone enthusiast purposes) is the ADS-B "out", which transmits information about altitude, airspeed and location derived through GPS from an equipped aircraft (or potentially a UAV) to ground stations and to other equipped aircraft in the vicinity. Air traffic controllers rely on this information to "see" operating aircraft in real time.

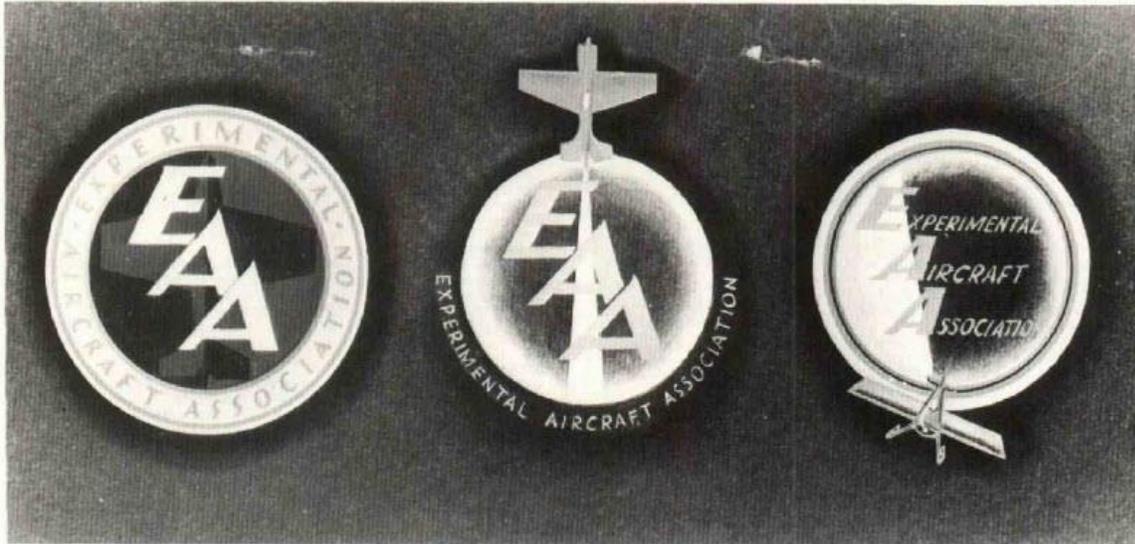
The other component of the system is the ADS-B "in", which is not included in the 2020 FAA mandate (requiring all manned aircraft be equipped with ADS-B out sensors by 2020). ADS-B in allows participating aircraft to receive air traffic and weather information from ADS-B ground stations and nearby ADS-B out-equipped aircraft. This information is displayed on a cockpit monitor to improve situational awareness.

So, what does all this have to do with drones? Well for starters, for companies like Google and Walmart that have visions of launching large autonomous fleets of on-demand delivery drones (similar to Amazon.com's well-publicized plans), making the ADS-B technology more accessible (not only to their own interests, but also to the aviation industry as a whole) and robust is a true no-brainer, especially if it provides the added bonus of easing the minds of the regulators that will have final say on approval of these coming-soon drone delivery services. Fighting the good Public Relations fight is always important, especially so in dealings with government bureaucracy.

One of the highest hurdles currently to widespread adoption of ADP-B tech in the U.S. is that the price tag makes it a tough sell where regulatory agencies aren't mandating its adoption. Why the Google and Walmart announcement carried so much weight in drone circles is that if Google can figure out a way to get the average cost of the hardware for a ADS-B system (current averages have this cost at \$2,000 plus heavy installation fees, and the ADS-B out component alone can cost between \$5,000-6,000 to equip an aircraft) down to around \$500 or even lower, the system will be installed in many more aircraft.

So it's really almost a "Win-Win-Win" for a well-funded and highly capable player like Google to get this done. Google wins by helping the industry meet its 2020 mandate for ADP-B adoption, showing regulators they are serious about airspace safety stewardship. Then its drone delivery fleet gets the regulatory green light and the rest of the aviation industry is happy because the company made meaningful investment in the industry, making the airspace safer for everybody.

## EAA LOGO HISTORY



### EAA LOGO

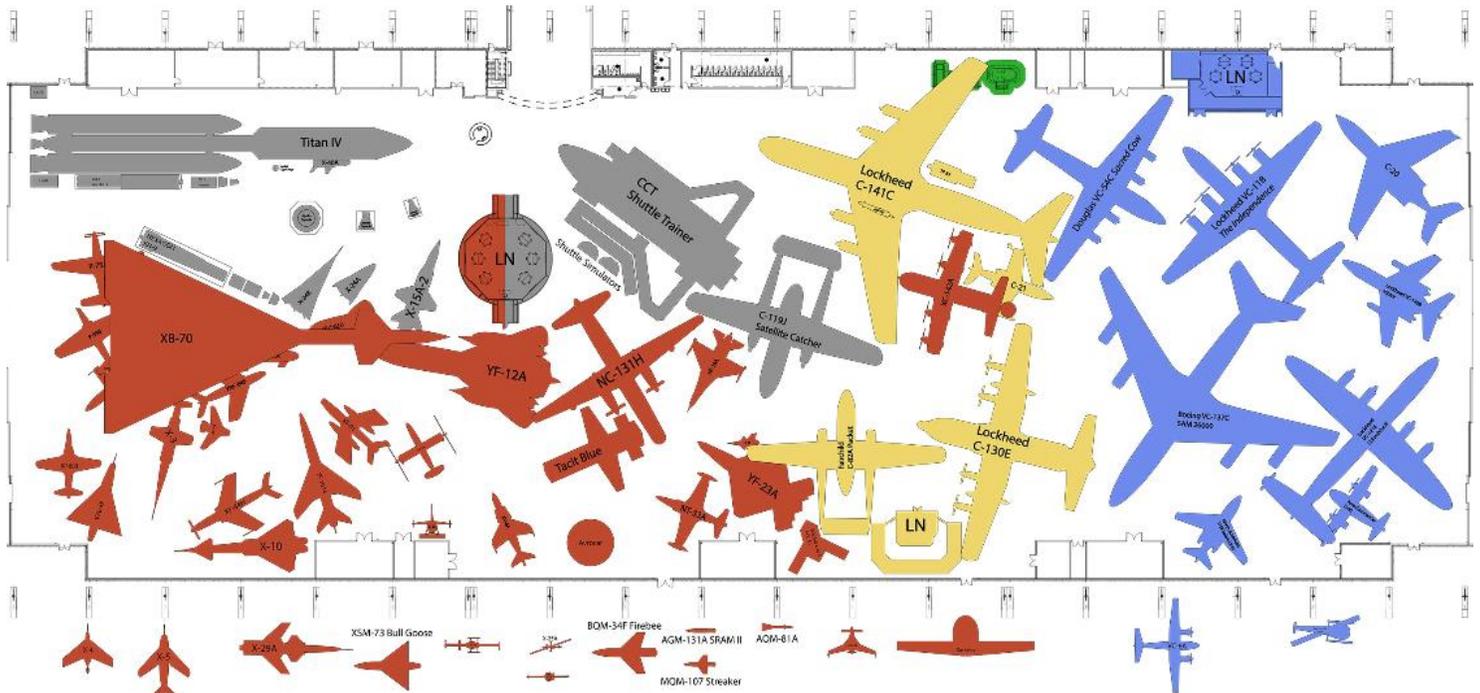
At the September 28, 1953 meeting of EAA a logo was selected by a vote of the membership — including ballots taken at the fly-in earlier in the month where the designs under consideration were on display. The final 3 choices were the work of California member George Collinge and are pictured here, we think, for the first time ever. The one on the left was basically red and black, the one in the center essentially red and white and, of course, the winning entry on the right, the now familiar blue, white and yellow. George's 1953 logo has stood the test of time these past 25 years — it is instantly recognized throughout the world by aviation enthusiasts . . . usually

at the front of an EAA cap . . . and is easily adapted to various permutations such as our winged version, the "Spirit of '76" wings, in the form of lapel pins, a part of the heading of Headquarters' stationery and many other uses.

George Collinge is today a resident of Oxnard, California and still takes an active part in EAA activities. He has contributed a great number of technical articles for the *Experimenter* and *SPORT AVIATION* over the past quarter of a century, many of which have been reprinted in various of our "How-To" manuals. He has an original design sportplane under construction which we hope to see on the line at Oshkosh one of these days.

## U.S.A.F. MUSEUM – 4<sup>TH</sup> BUILDING OPENING

The world's largest military aviation museum is getting bigger! Be one of the first to visit the National Museum of the U.S. Air Force's new fourth building, which opens to the public on June 8, 2016. See more than 70 aircraft in four new galleries -- Presidential, Research & Development, Space and Global Reach. You can board a space shuttle, walk through four presidential aircraft, look inside cargo planes, enjoy new educational opportunities in three STEM Learning Nodes and much more -- all with **FREE** admission and parking! For more info, see <http://www.nationalmuseum.af.mil/Expansion.aspx>





EAA Chapter 145 website: [www.145.eaachapter.org](http://www.145.eaachapter.org)

EAA National website: [www.eaa.org](http://www.eaa.org)

Riverview Facebook: [www.facebook.com/pages/Riverview-Airport/115468211816419](https://www.facebook.com/pages/Riverview-Airport/115468211816419)

**DUES ARE NOW BEING COLLECTED**

Dues of \$35.00 are payable to "EAA CHAPTER 145" and can be mailed to Bob Swietek at the address listed at the end of the newsletter or brought to the monthly chapter meeting. If you need to make any updates on your contact information, please include the tear-off slip for member data update with your payment.

**UPCOMING EVENTS**

June 10-12	Bois Blanc Island	Fly-In Camping Trip to Bois Blanc Island
<b>June 11</b>	<b>Riverview Airport (08C)</b>	<b>WMFA Young Eagle Event</b>
June 18	Greenville Airport	G.A.A.A. Young Eagle Event
June 25-26	Ionia Airport (Y70)	S.M.A.T. Open House / Fun Fest
July 1-4	Battle Creek Airport	Battle Creek Airshow & Balloon Festival
<b>July 9</b>	<b>G.R.Ford Intl (GRR)</b>	<b>Tower Tour – GRR – Kevin Hanson</b>
July 19-23	Mentone, IN (C92)	Gyrocopters & Paramotors: P.R.A. Convention
July 25-31	Wittman Field (OSH)	OSHKOSH 2016
August	USAF Museum, Ohio	Riverview Pilots Trip to USAF Museum
<b>Aug 9</b>	<b>Riverview Airport (08C)</b>	<b>meeting - Howard DGA-15 – Roger Brown</b>
Aug 20-21	Willow Run Airport	Thunder Over Michigan Airshow – Ypsilanti MI
Aug 26-27	Elkhart Indiana	Fly-In Movie Night / Camping Event
Aug 27	Holland Airport (BIV)	Wings of Mercy - Young Eagle Event
<b>Sept 10</b>	<b>Riverview Airport (08C)</b>	<b>meeting – WX24 Pilot - Paxton Calvanese</b>
Sept 17	Battle Creek Airport	AOPA Regional Fly-In
Oct 1-2	USAF Museum, Ohio	WWI Aircraft Rendezvous on museum grounds

**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](mailto:randall.houtman@dematic.com)

**The 2015 Officers for EAA145:**

President, Dick Foster  
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Newsletter Editor, Randy Houtman  
(913-5908 [randall.houtman@dematic.com](mailto:randall.houtman@dematic.com))

**Treasurer's Report:** (As of June 3rd)

Liabilities: \$3500.00  
Cash: \$97.62      Checking: \$86.69  
Savings: \$5354.24      Total: \$5538.55

Website Editor, Bill Willyard  
([wgwillyard@att.net](mailto:wgwillyard@att.net))

**EAA CHAPTER 145 MEMBERSHIP APPLICATION / RENEWAL FORM**

DUES ARE \$35.00 PER YEAR – JANUARY 1st to DECEMBER 31st

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



**SATURDAY**

**JUNE 11, 2016**

“TRANSFORMING YOUNG LIVES THROUGH FLIGHT”

West Michigan Flight Academy's Annual

**Fly In  
Drive In  
Walk In!**

**FLY-IN**

**Fly In  
Drive In  
Walk In!**



**Steak & Eggs Breakfast  
from 8am -12:00**

Riverview Airport: 805 Taylor St., Jenison MI 49428

\$10/person, \$7 (Children 4-14)  
(Children under 4 free)

**Free airplane rides for youth age 8-17:**

Young Eagles Rides courtesy of EAA Chapter 145

**Discovery Family Flights \$55.00**

**Car Show!**

\$25.00 to enter a car for judging. Includes one meal

**50/50 Raffle  
and door prizes.**

**Something for everyone!**

Our Annual Fly-In fundraiser benefits West Michigan Flight Academy's (WMFA) flight programs. These programs give children in West MI the opportunity to pursue careers in Aviation and Aerospace, while improving grades in Math and Science. This event is one of the many ways for WMFA to reach as many kids and parents as possible, as well as raising funds for fuel and maintenance cost.

WMFA is a non-profit organization dedicated to providing economically disadvantaged youth the opportunity and the tools to pursue a highly advanced technical career related to the Aviation & Aerospace industries. Creating experiences that build character, develop skills in communication, social, technical, professional discipline, and accountability.

**For more information, visit [www.westmiflightacademy.org](http://www.westmiflightacademy.org)**

# DAWN PATROL

FLY-IN or DRIVE-IN  
*Everyone Welcome!*



## PANCAKE BREAKFAST

Saturday, August 13, 2016

**\$7 Pancake Breakfast - 7:00AM to 11:00AM**  
(Pancakes, Eggs, Sausage, Coffee & Juice)

**Hot Dog Stand - 11:00AM to 2:00PM**

- ◆ Flight Demonstrations
- ◆ Static Displays
- ◆ New Aircraft
- ◆ Vintage Aircraft
- ◆ Experimental & Homebuilt Aircraft
- ◆ EAA Chapter 211 Display
- ◆ U.S. Coast Guard Helicopter
- ◆ Meet the Pilots
- ◆ Photo Opportunities
- ◆ Helicopter Rides
- ◆ Airplane Rides
- ◆ Biplane Rides
- ◆ Door Prizes
- ◆ Prevailing Winds Concert Band
- ◆ Children's Activities
- ◆ & Much, Much More!

**FUN &  
BREAKFAST  
STARTS AT  
7:00 AM!**

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