



January 2016

	WHEN:	WHERE:	PROGRAM:
<b>JANUARY MEETING</b>	<b>Thurs. the 14th 7:00 pm</b>	<b>FISHER COMMUNITY CENTER</b>	<b>AVIATION MUSEUM in</b>

## WHAT'S FLYIN' THIS WAY !!!

Happy New Year! Looking forward to a great year of fun flying activities, but first we have to get through the cold stuff. Just can't seem to avoid it here in Iowa.

Our meeting on Thursday the 14th at the Fisher Community Center will feature Garry Brandenburg talking about his trip to Germany and his visit to the air museum(s) they have there. As usual, we will gather at Taco Johns right across the street from the Community Center at 6 pm for those who can make it that early. Hope to see you there.

As of this writing, there is no confirmation as to whether or not the Iowa Aviation Museum in Greenfield will be having their annual Chili Fly-in. We will send out a notice if they happen to post anything before the end of the month.

## WHAT FLEW BY !!!

After a few tacos at TJ's, we had a good fun meeting where Prez Paul began the meeting with presenting the 2015 Service Awards to those who volunteered specific yearly duties such as Young Eagles Coordinator, Technical Counselor, etc. For the main part of the meeting we showed and "telled" in detail what kind of projects, trips we made, flights we flew, from the past year. Paul Adams brought some parts he is working on for the Double Eagle he is building. As usual, he displayed some high



Lorin Miller inspects Paul Adams' carb heat box.

quality workmanship. A nice heat muff for the exhaust and a carb heat box which will go between the heat muff and carburetor. Others discussed where they were with their building, and as mentioned above, Garry Brandenburg took a trip to Germany. All in all, it was a good, meaty, dose of hangar flying!

### •President



Paul Adams  
2144L Marsh Ave.  
Marshalltown, IA 50158  
641-753-6222

[djpradams@gmail.com](mailto:djpradams@gmail.com)

### •Vice President



Lorin Miller  
309 West St.  
Colo, IA 50056  
641-485-0840

[lorin.miller@emerson.com](mailto:lorin.miller@emerson.com)

### •Sec/Treas

Dave McCurry



5 Valley View Rd.  
Marshalltown, IA 50158  
641-752-4729

[dmccurry@centurylink.net](mailto:dmccurry@centurylink.net)

### •Newsletter Editor

Corey Butcher



2940 Arney Ave  
State Center, IA 50247  
641-493-2415 (hm)  
515-331-2943 (wk)

[coreybutcher@eaa675.org](mailto:coreybutcher@eaa675.org)

# CALENDAR

Jan 8	7pm	Fisher Community Center
Jan 30??	11am-2pm	Greenfield Airport??
Feb 11	7pm	FCC/T
Mar 11	7pm	FCC/T
Apr 21-22		West Des Moines

EAA 675 - WWII Flight Checkout / Building Tips  
Iowa Aviation Museum Chili Fly-In ???  
EAA 675 - Chuck Calwell-Space Capsule Retrieval  
EAA 675 - EAA Chapter Videos  
Iowa Aviation Conference [www.iowaairports.org](http://www.iowaairports.org)

## ***A Friendly Reminder...***

If you have ordered a calendar and not gathered it from Paul, he would appreciate you doing so. You probably know who you are, but here are the initials of those whom Paul needs to collect \$7.50 from... Ju.Ke., Ch.Ku, and Do.Bo. Please make a note of it 8^}

## ***FOGz Report***

Well, it's either too foggy, too cold or both. And thats all we have to say about that.

## ***Another Friendly Reminder...***

Our chapter dues are still only \$10 a year. This helps pay our insurance and other necessary fees to maintain our EAA chapter status. If you have not paid your 2016 dues, the beginnig of the year is a good time.



***Here is an updated photo of Paul Adams heat muff and polished exhaust pipe.***



## ***A Sad Passing***

One of the field trip items we have had on the back burner, is now no longer possible. The private World War I museum of Ed Doyle, located near Hampton, Iowa, has been closed due to security concerns. This was an amazing collection that will probably go in total to the Smithsonian or an equivalent high end museum. This collection included three full sized flying aircraft, a Fokker Dr1 replica, a Sopwith Camel, and a Nieuport 28. All three were built to original plans incorporating many original parts with the only exceptions being tailwheels, brakes and more modern engines. Along with the "Red Baron" replica is displayed an original Oberursel engine that is only two serial numbers from the engine Manfred Von Richtofen was behind when shot down. Along with the airplanes was thousands of WWI memorabilia, artifacts, engines and parts. Many current chapter members did not have the opportunity to visit this historic collection, but back in 2005 we were able to take an afternoon and visit. Some photos from that visit are available for viewing here...

<http://www.eaa675.org/Events/BeedsLake/index.html>  
The web page will indicate broken placeholders, but as you click on each one, the photo will show up in a separate page.



***The chapter members who visited Beeds Lake back in 2005. Ed Doyle, now deceased, is on the far left.***

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## Rosetta

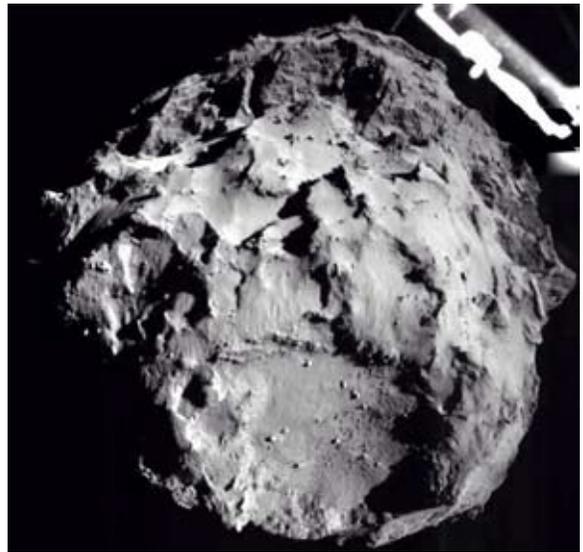
I do not know how many of you followed the Rosetta space probe flight story. I did because space travel and exploration has always interested me. A highlight in my life occurred at Oshkosh when at the Theater in the Woods I had the awesome experience of listening to Neal Armstrong talk. During his presentation he not only had astronauts that were homebuilders on stage he also dialed up the International Space Station and talked to homebuilding astronauts. What made it even more awesome was it was a clear night and they had timed the phone call to the International Space Station at the same time it flew over Oshkosh. We could actually see it! How cool is that!

The Rosetta space probe was unmanned. As I thought about it more I wondered how something like this project got started. I mused over our group sitting around like it does discussing projects and things. If we were the ones initiating this project I imagine it would go something like this...



***The launch vehicle at the start of the mission. Wow!***

You ever wonder what a comet looks like? We should plan a probe to go up and look at one. But you know they travel really fast, like 100,000 miles an hour. And their orbit extends to the far reaches of our solar system and orbit the sun in a funny elliptical orbit. Wonder how we could get going that fast. How about using gravitational forces? Yea, how about we bring the probe back close to earth and sling it around using earth's gravitational force to accelerate it. That's good but won't quite get us there. Ok, then bring it back Again and swing it around Mars, will that do it? Yep. So know that we are going fast enough how do we plan it so we can fly in formation with a comet? We need a well planned launch, followed by an appropriate trajectory with some fine tuning from some thrusters. Sounds complicated and it's never been done before. Details, details. While we are in formation we should run some experiments. How do we do that? How about some big solar panels for power? Yea, but when we are out in the far reaches of the solar system the sun's power will be low. Ok, then we will have to put it to sleep ever so often. Hope it wakes up. Me too.



***A photo of comet 67P taken from Rosetta***

How close do you think we can get? Oh, twenty or thirty kilometers. Really? Then if we are that close we might as well land on it! Ok. Wait a minute, did you know comets have high rotational speeds and are small? To land we will have to match the rotational speed or our lander will just ricochet off. Yep and might have to affix our lander some how so it will stay put. Yep, I bet a harpoon would work. Also we need to be careful of the comet's tail. Yea, they can be up to one million miles long and could disrupt our flight trajectory. Might have to make that flight plan such that we can approach from an angle. Yea and if we do that right that is how we can match speeds.

*continued on next page*



***An artist's rendition of the Phileo Lander separating from the Rosetta Space Probe***

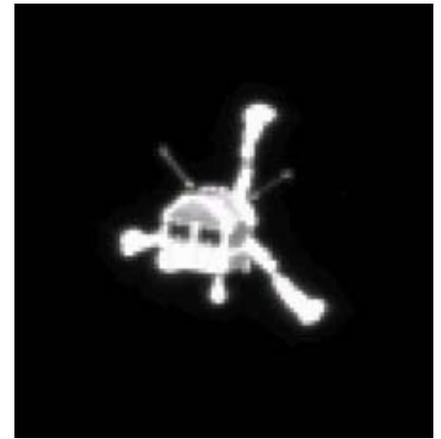
Did you hear they collected samples from a comet's tail and found amino acids? What's an amino acid? Amino acids are the foundation of proteins and proteins are the foundation of life. Makes you wonder doesn't it. Let's ride our comet around the sun as it's tail develops and do some studies. That means we will need sun power for the lander. And a perfect landing. Sounds like a good project, who has a spare launch vehicle?

Today the lander sits on a comet that is two and one half miles long and is spinning madly, and is riding through space back towards the sun at 100,000 miles per hour. The



***An Artists depiction of the Philae lander sitting on Comet 67P***

lander sent back 64 hours worth of data before the batteries ran low. They landed in a shady area. But as the comet gets closer to the sun the lander will get more sun light and again communicate back to earth. The Rosetta probe is presently flying in formation with the comet at a thirty kilometer altitude. It actually went down to twenty kilometers for a short period but then they brought it back to the higher safer altitude. I don't know about you but a find all this totally amazing!



***An actual photo of the Philae lander taken from Rosetta shortly after separation to land on the surface of Comet 67P***

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## ***Unique Airplane Assemblage***

Below is a screenshot from an interesting video on the internet. It is animated and set in a dystopian future and kinda out there, but the depictions of the cobbled together aircraft are entrancing. See if you can count how many different airplane models are represented in each and all of the aircraft shown. The video link is ...

<https://vimeo.com/126090217>

