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**Young Eagles Coordinator:**

Paul Dowgewicz

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Log in with your 1310 ID at:

[login.microsoftonline.com](http://login.microsoftonline.com)

# Uncontrolled Airspace

The Newsletter of EAA Chapter 1310

May, 2018

## Next Meeting

Wednesday May 9 - 7:00 PM

Lower Pilot Lounge at Skylark Airport

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## Next Event

**Spring Safety Seminar – Fly By Night**  
**Saturday May 19 10:00 – Noon**

Coffee & Donuts at 9:30, Seminar begins at 10:00

Especially in light aircraft, flying after dark comes with real trade-offs. Smooth air, better performance, and stunning views are great—but they're offset by trickier landings, invisible terrain, and limited emergency options. So what's the key to staying safe after sundown?

This seminar looks at night flying from a risk management perspective. Using decades of accident data, we identify common problems and recommend the best ways to avoid them. Along the way, we cover:

- Requirements for pilots and aircraft
- Unique flight planning considerations
- Why all nights are not created equal
- Things that can take you by surprise

The seminar will be presented by Melanie Folcik Barillaro. Melanie, a very dynamic speaker, is an experienced instructor with airplane and rotary wing ratings. Qualifies for WINGS credit. Visit [faasafety.gov](http://faasafety.gov) to register.

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## 2018 Membership Renewals

Renew your chapter membership through the online [store](#), or mail a check payable to EAA Chapter 1310 to the address at the bottom of this page. We'll get your membership card back to you.

Renew for three years for \$60. Save \$15.

Thanks go out to all the members who have already renewed.

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## Chapter Clothing

New chapter logo T-shirts, sweatshirts and hats are in, and will be available at our next meeting and event.

Our Chapter online store is undergoing an upgrade, and is temporarily unavailable.

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## MINUTES OF MEETING OF EAA CHAPTER 1310 APRIL 11, 2018

The meeting was called to order at 7:06 PM by Pres. Jack Hilditch

The Secretary's Report was accepted as published.

Treasurer's Report: Total General Balance, \$23,239.30. Witkin Memorial fund, \$2,359.30.

### **New Business:**

There was a discussion on some problems with the last breakfast. People arrived early, before the food was ready, possibly move the published start time back one-half hour.

Safety Seminar, May 19th. Subject: "Fly by Night". Coffee and donuts in the AM.

Jack Hilditch will try to do some coordinating with the Trolley Museum on joint projects.

Paul Dowgiewicz has purchased a badge maker, should save money.

### **Old Business:**

Hangar Update: Bruce Bemer has hangar paperwork, wants his lawyer to look at it. Sonotubes cannot be used, engineering study underway, definitely making progress. Still need to come up with a bonding plan, Need two metal exterior doors for fire exits, everyone should be on the lookout for useful donations.

There was a discussion on site preparation. Need to get more members involved.

Chapter workday on the 28th. The storage container door needs to be repaired or replaced, there is a roof leak to be attended to. We need some kind of a large griddle for eggs.

**Program:**

Jack Hilditch made a presentation on his master's theses for a plan to manage airspace in an urban area for unmanned aerial vehicles.

Respectfully submitted,  
James T. Glista, Secretary

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**Treasurer's Report as of 4/30/18**

MAIN ACCOUNT GROSS BALANCE	4,682.17
PAY PAL ACCOUNT BALANCE	802.25
20 Month 1.55% CD Matures 7/17/19	20,127.82
TOTAL ALL BALANCES	25,612.24
RESERVED BALANCE	
	Witkin
	Memorial Fund
	2,359.52
TOTAL GENERAL BALANCE	23,252.72
	Change vs Prior
	Month
	13.42

Income; Plourde donation, interest - Expenses; Electricity, Internet Service, Badge printer and supplies, Work Day food

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**EAA SOLIDWORKS Resource Center**

SolidWorks is a solid modeling computer-aided design (CAD) and computer-aided engineering (CAE) computer program that runs on Microsoft Windows. SolidWorks is published by Dassault Systèmes, and the student version is available free to EAA members for non-commercial use.

According to the publisher, over two million engineers and designers at more than 165,000 companies were using SolidWorks as of 2013 All tutorial resources (instructions, part models, videos) will be available in the EAA SOLIDWORKS Resource Center at

[EAA.org/SOLIDWORKS](http://EAA.org/SOLIDWORKS) in early August. Look for an announcement in *e-Hotline*!

Speaking of the resource center, did you know that you can now take the Certified SolidWorks Professional Exam (\$99 value) for free? EAA members get free access to the exam by obtaining a promo code from the related benefits section of the Resource Center.

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## **Video of New Time to Climb to 10,000'**

Here's a video of the record run as recorded by FAI

[https://www.youtube.com/watch?v=k\\_gedJrWbT4](https://www.youtube.com/watch?v=k_gedJrWbT4)

Official TIME TO CLIMB FAI world record! 1 Minute 40 Seconds!

The plane will be at OSH and I think may go into the museum after AirVenture as a donation.

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## **DUATS Discontinued May 16**

As you may be aware, the FAA will discontinue the Direct User Access Terminal Service (DUATS II) Program on May 16, 2018. On that date, the AOPA Flight Planner, AOPA GO and other flight planning tools will no longer have the ability to brief or file via CSRA DUATS. Users should transition to using 1800WxBrief (Leidos Flight Service) for briefings and filing on or before May 16<sup>th</sup> to eliminate possible disruptions. Both the AOPA Flight Planner and AOPA GO are fully integrated with 1800WxBrief. The online AOPA Flight Planner provides an interactive, graphical briefing and can send flight plans to 6 of the top EFB apps on the market. New Leidos Flight Service accounts can be created for free from within the AOPA Flight Planner or AOPA GO. Instructions are provided below for linking existing Leidos accounts or creating new Leidos accounts from within the AOPA Flight Planning Tools:

### **Existing Leidos Flight Service Account (1800WxBrief):**

If you have an existing Leidos Flight Service account, enter the email address associated with that account in the Pilot Info section of the AOPA Flight Planner or AOPA GO. You may be asked to add AOPA as an authorized service provider in your account information on the 1800WxBrief website (1800wxbrief.com). After entering your email address as noted above, additional instructions will be provided if provider authorization is required.

### **Create a New Leidos Flight Service Account (1800WxBrief):**

If you do not have an existing account with Leidos Flight Service, enter the email address you would like to use for setting up a new account in the Pilot Info section of the AOPA Flight Planner or AOPA GO. You will be asked to provide some additional information to finish setting up your account and will receive an email from Leidos Flight Service upon completion that verifies your new account was created successfully. No further authorization will be required when setting up a new 1800WxBrief account.

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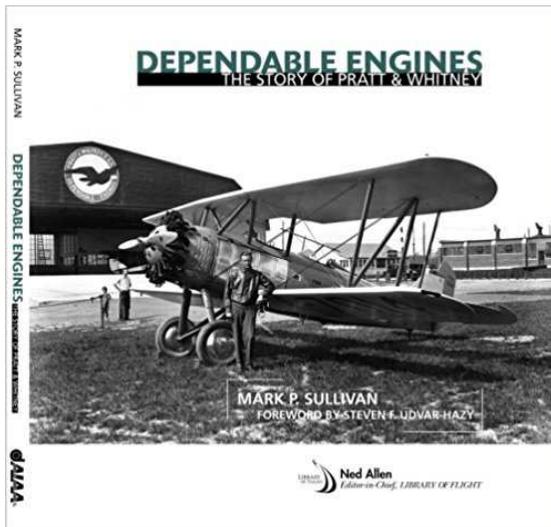
## Open Cockpit Day at New England Air Museum



The New England Air Museum will hold an Open Cockpit Day on Father's Day, Sunday June 17th, 2018 from 10:00 a.m. to 4:00 p.m. Special activities include climb aboard experiences in historic aircraft; flight simulators; hands-on Build & Fly Challenges, and much more! A variety of aircraft will be open for visitors including the WWII era Republic P-47D, the Vietnam War era Bell UH-1B "Huey" helicopter, as well as supersonic jet fighters including the North American F-100 Super Sabre jet fighter and the Lockheed F-104C Starfighter. Food and beverage will be available for purchase, and all activities are included with museum admission.

### "The Amazing History of Pratt & Whitney"

Over the years, Pratt & Whitney has patented hundreds of innovations, from heat-resistant coatings to aerodynamic blades - technologies that make air travel more cost effective, comfortable and dependable. Today Pratt and Whitney engines provide power for everything from land based power stations, business jets and helicopters to large commercial aircraft, fifth generation fighters, and manned & unmanned space vehicles.



Mark P. Sullivan, former Communications Director for Pratt & Whitney, provides insight into one of the most iconic names in aviation. Pratt & Whitney rising from humble beginnings in a former cigar warehouse to become one of the most recognized symbols wherever people fly.

The program will be held on Sunday, May 20th at 1:00 p.m. in the museum's conference room.

Cost: \$20.00 to non-member which includes admission to Museum. Members are free.

Reservations are strongly encouraged. Visit [www.neam.org](http://www.neam.org) for online reservations or call (860) 623-3305 for additional information. The 2018 Speaker Series is presented by CT. Humanities

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## DJI and Microsoft bring support for native Windows apps to drones with new SDK

DJI and Microsoft have announced a new strategic partnership to bring forward a new software development kit (SDK) to Windows that will allow for full flight control of commercial drones.

Applications being written for Windows 10 will be able to be optimized for use with DJI's drones. Real-time data transfer and the use of AI and machine learning for image processing will help turn captured data into valuable business assets.

In addition, DJI has also chosen to use Microsoft's Azure cloud platform for storage and processing of photos and videos. "Together, we are bringing unparalleled intelligent cloud and Azure IoT capabilities to devices on the edge, creating the potential to change the game for multiple industries spanning agriculture, public safety, construction and more," says DJI executive vice president Scott Guthrie.

A native SDK for Windows enables developers to deploy Windows applications to DJI drones. One of the largest benefits to native Windows support is the ability to use already supported sensors, actuators and other robotic components without needing to invest in custom software.

Microsoft and DJI have already started working to improve Microsoft's FarmBeats agricultural project. Data is being collected from aerial and ground sensors and analyzed using artificial intelligence models running on the Azure IoT Edge platform. Real-time heat maps are now able to be generated with the help of DJI's drones to help produce higher crop yields.

Although DJI is the clearly dominant force in the drone industry, Intel is also aiming to take a sizable market share with its own AI software to process collected data. Despite the fact that there is still significant room for hardware improvements on drones, software is going to be the key to attracting the attention of business customers over the next several years.

The official DJI SDK for Windows is available today (May 7, 2018) as a beta version. A final revision is set to launch this fall.

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## GeoFs Free Online Flight Simulator

GeoFS is a free, online flight simulator, with global scenery, that runs in your web browser. Whether you are a licensed pilot practicing VFR, an aviation enthusiast or just looking for some fun flying in **beautiful landscapes**, you can enjoy any of the 20 available aircraft, ranging from para-glider to airliners, absolutely anywhere in the world.

- Free 10 meter global satellite images Photo-realistic sub-meter HD imagery on subscription. [more...](#)
- Global high resolution terrain mesh
- Massively multiplayer
- Navigation map with 30,000 referenced runways
- ADS-B (real-life) commercial traffic in real-time

- Runs on Windows, Mac, Linux, Mobile
- Joystick support
- 20 available aircraft (+ community contributed)
- Real-time atmospheric conditions weather forecast feed

GeoFS is built on top of [Cesium](#), a 3D globe technology (just like Google Earth) that can provide global, highly detailed, **photo-realistic landscape**.

When flying GeoFS for free, you are provided with global, 10 meter resolution, satellite images mapped over a high resolution mesh (30 meter, down to 1 meter in some regions).

To enhance realism, you can subscribe to GeoFS HD and fly over high resolution, photo-realistic aerial images.

GeoFS HD is particularly suitable for VFR practice.

The environment can be dynamically lit depending on the time of day. Runway lights and PAPI are also rendered on major runways to help you at night and with your approach slope.

A "location selector" offers to fly directly to pre-selected places of some interest. Or you can simply search for a specific location and be instantly transported at the right spot.

Navigation map provides air space charts, traffic positions and about 30,000 clickable runways to take-off from. Clicking anywhere on the map allows to start flying from any altitude at any point on the planet.

You can fly absolutely anywhere on earth.

GeoFS runs a **realistic physics simulation**.

Flight model is based on the Thin Airfoil Theory and simulate lift, drag and stall on all aircraft surfaces in real time. However, controls and procedures are simplified so you can be up and

flying in seconds, even without any experience.

Each aircraft is tweaked to accurately reflect real-life performance (speed, max altitude, rate of climb, etc.)

All main instruments, while simplified are accurate and functional. Some of the most detailed aircraft offer an animated virtual cockpit and advanced shading (reflection, bump mapping, etc.)



Real-time weather data is collected from [openweathermap.org](#), based on your flying location, and used to generate atmospheric conditions (wind, cloud coverage, air temperature and pressure) that will have an effect on your aircraft.

Wind is also interacting with terrain to create dynamic lift: you can soar along cliffs and ridges with gliders.

GeoFS is multiplayer: as you fly, you can see other pilots around you.

Log-in with your Google or Facebook account and chat with other pilots.

It is easy to find and join other pilots in flight from the list of logged-in users.

You will also be able to spot **real-life air traffic**. The data (ADS-B) is fetched and consolidated from several sources and you can see and follow commercial aircraft flying in your area.

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## **2018 Local Aviation Event Schedule**

Visit the [eaa1310.org](http://eaa1310.org) Calendar page for updated listings and more information about these events.

### ***Reoccurring Events***

Chapter 1310 Meetings – 2<sup>nd</sup> Wednesday 7 PM April-October  
2<sup>nd</sup> Saturday 10 AM November, January, February, March at Skylark Airport

Chapter 166 Meetings – Last Saturday of month 10:00 AM (Except July, Nov & Dec) at Hartford Jet Center, 20 Lindberg Drive, Hartford. <http://166.eaachapter.org/>

Chapter 27 Meetings – 3<sup>rd</sup> Sunday of month, 10 AM at Meriden Airport <http://eaa27.org/>

Chapter 324 Meetings 1<sup>st</sup> Wednesday of month, 7 PM Simsbury Airport <https://www.facebook.com/eaa324/>

### ***Chapter 1310 Events***

<b>Saturday April 28</b>	<b>9:00 AM</b>	Cleanup Day
<b>Saturday May 5</b>	<b>10:00 AM – 1:00 PM</b>	Young Eagles Flights
<b>Saturday May 19</b>		Spring Safety Seminar
<b>Saturday June 23</b>	<b>8:30 – 11:00 AM</b>	Pancake Breakfast
<b>Saturday July 21</b>	<b>8:30 – 11:00 AM</b>	Pancake Breakfast
<b>Saturday August 18</b>	<b>11:00 AM – 2:30 PM</b>	Corn Roast & Cookout
<b>Saturday September 15</b>	<b>10:00 AM – 1:00 PM</b>	Young Eagles Flights
<b>Saturday October 13</b>		Fall Safety Seminar
<b>Saturday November 3</b>	<b>8:30 – 11:00 AM</b>	Pancake Breakfast

## **Other Aviation Events for 2018**

May 12 – **Meriden Fly-In and Public Safety Festival** 9:00 AM – 3:00 PM

**Seminars:** 10:30 – Flying the New York Special Flight Rules Area  
10:00 – Flying Low and Slow Up the East Coast  
2:00 – So You Want to Learn How to Fly an Airplane

Aviation exhibits, Performers, Vendors

<http://meridenmarkham.com/flyin.htm>

May 19 – **Armed Forces Day Fly-In Monmouth Executive Airport**

10:00 AM – 7:00 PM, Music, Food Trucks, Aviation Displays, Helicopter Rides.

Get a free lunch if you fly in with a veteran on board. <http://lz-64.com>

June 9 – 10 **Rhode Island National Guard Open House and Air Show**, Quonset State Airport, North Kingston, RI

[USN Blue Angels](#)

<https://www.rhodeislandairshow.com/>

June 9 – 10 **Old Rhinebeck Aerodrome**, Rhinebeck, NY

Opening weekend <http://www.ldrhonebeck.org>

July 13 – 15 **Green Mountain Aerobatics Contest**, Hartness State Airport, Springfield, VT

<https://www.iac.org/node/2315460>

July 14 - 15 Galaxy Community Council **Great New England Air Show**

Featuring the USAF Thunderbirds, Westover ARB, Chicopee, MA

<http://www.greatnewenglandairshow.com/>

July 23 – 29 **EAA AirVenture Oshkosh**, Wittman Regional Airport, Oshkosh, WI

[www.airventure.org](http://www.airventure.org)

August 25 **Plymouth Air Show**, Plymouth Municipal Airport, Plymouth, MA

<http://www.plymouthairshow.com/>

September 15 – 16 **New York Air Show**, Stewart International Airport, Newburgh, NY

[USAF Thunderbirds](#)

September 23 **Simsbury Fly-in & Car Show**, Simsbury, CT

<http://simsburyflyin.com/>

October 13 **EAA Chapter Leader Boot Camp** Hartford, CT – Sponsored by Chapter 166

[https://www.eaa.org/en/ea/ea-chapters/chapter-leadership-training/chapter\\_leadership\\_boot\\_camp](https://www.eaa.org/en/ea/ea-chapters/chapter-leadership-training/chapter_leadership_boot_camp)

*If you have a topic you would like to see covered in our monthly newsletter, please send a note to Paul at [info@eaa1310.org](mailto:info@eaa1310.org)*