



July 2019 Newsletter #34

In This Issue:

You will find an article on the departure of a gaggle of DC-3's and C-47's from Waterbury Oxford to fly to Europe for a D Day reenactment, the results of a poll on the worst airport, a Bonanza prize, and a VTOL that uses swiveling ducted fans

We want to increase active membership in our chapter so if you want to find out more, send me an email and we'll talk tedgordon@gmail.com.

Join us at any meeting for story-telling, hints and kinks, and planning of future events. You don't have to be interested in building airplanes, or even a pilot; only a healthy interest in things that fly. Meet kindred spirits. Meetings are informal. The June meeting will be on June 8, 10:00 at Dooney Aviation on the south side of Westerly Airport: 63 Tom Harvey Rd; Westerly, Rhode Island. If you get lost call at 860 575 3429.

CONTEST. Last month's photograph was of Barnes MA airport. No winners. The new airport for this month's contest is shown below and is equally tough. \$20 is waiting for the first correct identification. It is in our general area.

No winners.



AMERICA'S WORST AIRPORT

From:

<https://www.linkedin.com/feed/news/americas-worst-airport-5010330/>



Newark Liberty Airport is the **worst U.S. airport**. That's according to Airhelp's 2019 annual rankings, which placed the New Jersey hub 116th out of 132 in the world. Hartsfield-Jackson Atlanta International Airport fared best at 34th. Taking out the top spots — based on on-time performance, service quality, and food and shopping options — were Doha's Hamad International Airport, Tokyo International Airport and Athens International Airport. The report notes the biggest issue airports face is congestion: In 2018, international tourist arrivals **increased 6%, to 1.4 billion**.

But Newark Liberty is building new terminals so improvements are likely.

SOCIETY POSTS PRIZES TO SAVE BONANZA FLEET: REWARDS OFFERED FOR CORROSION SOLUTIONS

May 2, 2019 By Jim Moore

From: https://www.aopa.org/news-and-media/all-news/2019/may/02/society-posts-prizes-to-save-bonanzas?utm_source=ebrief&utm_medium=email

Beechcraft engineers used magnesium to skin the ruddervators of V-tail Bonanzas dating back to 1947, and magnesium has since become very hard to come by. Engineering an alternative that works as well could earn an engineer, or team of engineers, a share of \$200,000 as a reward for saving the fleet from being forever grounded by corrosion.



The ruddervator control surfaces on the tails of Model 35 Bonanzas are skinned in expensive and hard-to-find magnesium that is notoriously vulnerable to corrosion. APOA file photo.

The **American Bonanza Society Air Safety Foundation** put the word out April 30 that **two separate prizes are available**: up to \$20,000 each awarded to as many as five individuals or teams who engineer a ruddervator skinned with something other than magnesium. Solutions must be shared as open source technology and survive peer review. Successful engineering solutions can then be used by the creator, or someone else, to claim a \$100,000 prize offered for being the first to secure a supplemental type certificate for a reskinned or replaced ruddervator available to all Beech Model 35 Bonanzas covered by existing type certificates A-777 and 3A15.

It might sound simple, but it's not, or it would have been done long since. ABS Air Safety Foundation Executive Director Tom Turner told AOPA that the dwindling supply of magnesium has been well known and worsening for a long time, and the hope is to find a different material to cover the flight control surfaces on each side of the V35 Bonanzas. A straight tail can be reskinned in aluminum, but some unique characteristics of the ruddervators installed on all V35 models preclude that.

For one, being as far aft of the center of gravity as it gets, the ruddervator control surfaces must be as lightweight as possible. Magnesium also confers unique properties that protect against control surface flutter, Turner added. So far, nobody has figured out a substitute that can do all that magnesium can do without corroding as magnesium does—very quickly, if any part of the metal is exposed. Paint chips are anathema to V-tail Bonanza owners, and corrosion threatens the long-term airworthiness of the entire fleet.

Turner said Textron Aviation, which owns Beechcraft and all of its type certificates, is attempting to source the high-grade magnesium in large enough quantity to meet the need, and may also be attempting to reengineer the ruddervators.

“It’s difficult to get different types of materials to achieve the same control flutter protection,” Turner said.

The Wichita, Kansas-based organization is funding the prizes with a bequest from Manuel Maciel, and “we think this is one of the best possible uses of this money,” Turner said.

While the deadline for a completed STC to be eligible for the \$100,000 prize is Dec. 31, 2025, Turner and the owners of V-tail Bonanzas hope an answer might come sooner. Turner said that they set the deadline farther out than anyone really wants to wait because the work will take time, and the society did not want to “limit potential contenders.”

The deadline for submitting a materials-tested solution that is eligible for FAA evaluation and an STC application is June 1, 2023. Universities and private firms with metallurgical expertise and access to materials testing equipment are in the best position to come through, along with aircraft manufacturers. While the rules don’t preclude the use of magnesium entirely, the \$100,000 prize winner will have to have produced five retrofit kits or finished control surface units at a price no more than 20 percent greater than what is currently available.





Ted Gordon Photo Credit

D-Day Squadron Heads North from Waterbury Oxford Airport



After almost 18 months of planning, fundraising and training, the D-Day Squadron, the American contingent of Douglas C-47 and DC-3 transports participating in Daks over Normandy, is about to embark on their journey to Europe to celebrate the 75th anniversary of D-Day. ***On May 19th, the D-Day Squadron ws scheduled to depart Oxford-Waterbury airport in Connecticut and head East to cross the Atlantic*** along the original Blue Spruce route. There will be a full week of activities to kick off this event, including a special Squadron flyover of the Statue of Liberty.



June 2019 provides us with the very last opportunity to organize Daks over Normandy and to honor those who have paid so much to liberate Europe. Daks over Normandy will be a once in a lifetime event. The skies over the United Kingdom and Normandy, France will be filled with Douglas DC-3/C-47 Dakotas and hundreds of Paratroopers. For the first time since World War II will this many of these magnificent aircraft be assembled in the very place where they saw their finest hour. From 2 to 9 June 2019 over thirty DC-3/C-47's will come together. Their owners and operators fly them in from all over the Globe. From Scandinavia, The Netherlands and the rest of Europe, from Canada and the United States and even from as far away as Australia. All for what may well prove the very last time. Just so everyone can watch paratroopers jump over Normandy once more and admire these wonderful aircraft on the ground and in the air, where they belong.

The Daks over Normandy event is held in two locations: from 2 to 5 June at Duxford Airfield in the United Kingdom and from 5 to 9 June at Caen Carpiquet Airport in Normandy, France! Both locations were carefully chosen because of their facilities and their infrastructure and because of their World War II heritage.

On 5 June 2019 we will follow into the footsteps of the Greatest Generation! About 250 men and women will board the aircraft in the United Kingdom to, exactly like 75 years before, fly across the English Channel and to jump into the historic drop zones of Normandy. They will be wearing WWII style Allied uniforms and will jump military round parachutes. It will be an event which has no equal. History in the making. Again! Just like in 1944.



ADS-B REBATES HAVE ALL BEEN RESERVED



The last few hundred of the \$500 Automatic Dependent Surveillance – Broadcast (ADS-B) rebate reservations offered to general aviation aircraft owners by the FAA are gone.

Since launching the program in September 2016, the FAA has offered 20,000 rebates to qualified applicants.

Should any of the reservations be returned, the agency will [make them available](#) each Wednesday at 1 p.m. Eastern Time on a first-come, first-served basis.

The FAA rebates were made available to encourage owners of fixed-wing, single-engine piston aircraft to equip with ADS-B Out avionics, which will be required in certain, controlled airspace by Jan. 1, 2020.

Aircraft owners need to follow five steps to receive the \$500 rebate:

1. Purchase the equipment and schedule its installation.
2. Obtain a Rebate Reservation Code by reserving a position online.
3. Have the equipment installed.
4. Conduct the required equipment performance validation and get an Incentive Code.
5. Claim the \$500 rebate online using the Rebate Reservation Code and Incentive Code.

In addition to the ADS-B Rebate reservation portal, the [FAA's Equip ADS-B website](#) lists FAA-certified ADS-B equipment and features an equipage database searchable by aircraft type and model.

LILIUM FLIES WITH 36 ELECTRIC-DUCTED FANS

From: [https://www.wired.com/story/lilium-electric-aircraft-prototype-first-flight-jet/?CNDID=46249697&CNDID=46249697&bxid=MjM5NjgxNTM0NiQ3S0&hasha=94e9a7e2fe585e7deb9f233989c8299a&ashb=8ec594b604d57fb3e4ce31d11ae139d2f21b74fa&mbid=nl_051619_daily_list3_p3&source=DAILY_NEWSLETTER&utm_brand=wired&utm_mailing=WIRED%20NL%20051619%20\(1\)&utm_medium=email&utm_source=nl](https://www.wired.com/story/lilium-electric-aircraft-prototype-first-flight-jet/?CNDID=46249697&CNDID=46249697&bxid=MjM5NjgxNTM0NiQ3S0&hasha=94e9a7e2fe585e7deb9f233989c8299a&ashb=8ec594b604d57fb3e4ce31d11ae139d2f21b74fa&mbid=nl_051619_daily_list3_p3&source=DAILY_NEWSLETTER&utm_brand=wired&utm_mailing=WIRED%20NL%20051619%20(1)&utm_medium=email&utm_source=nl)



Photo: Lilium



Photo: Pop Sci

Lilium's new vertical-takeoff-and-landing prototype made its first flight on May 4, the Munich-based startup revealed today. Though Lilium says the gleaming five-seat electric can fly 186 miles in an hour, its first flight, like most such tests, was modest. Operated by remote control, it lifted off, hovered a few yards above the ground, and landed. The modest first outing that's common for any new aircraft type, following months of extensive ground testing.

Lilium has been quiet since showing a subscale, two-seat prototype two years ago, but it has one of the more interesting—and contested—technological approaches in this burgeoning field. The “Lilium Jet” uses 36 electric-powered ducted fans. Inside each, a small rotor ingests air from the front and pushes it out of the rear at higher speeds. They're not technically jet engines (so the aircraft isn't a “jet”). The lack of spinning blades improves efficiency, reduces noise, and eliminates the risk of turning passing birds into chop suey.

The motors are arranged in two rows of six on either side of the nose—embedded in a forward assembly known as a canard—and two rows of 12 in the rear wing. The aircraft would pitch the fan assemblies vertically for takeoff, then transition them 90 degrees for horizontal flight, with the aerodynamic wing and fuselage providing most of the lift at cruising speed. In this configuration, the aircraft would only need about 10 percent of the maximum thrust of the motors to maintain forward flight, a Lilium spokesperson says. Panoramic windows and gull-wing doors make for a flying experience that bears little resemblance to commercial aviation. *Below photo: Pop Sci*



2019 EVENT SCHEDULE

REMINDER: EAA334 meetings are generally scheduled on the second Saturday of each month at 10:00 AM at Dooney Aviation at Westerly Airport. Address: 63 Tom Harvey Rd., Westerly, RI.

May 31 and June 1: Westchester Airport

The first U.S. Aircraft Expo in New York will take place on May 31 and June 1 at the Westchester County Airport (KHPN) in White Plains. As in previous years, the U.S. Aircraft Expo will be open from 10 a.m. to 4 p.m. local time, with an aircraft ownership seminar on Friday afternoon. Aircraft manufacturers such as Textron Aviation, Piper, Quest, Honda Aircraft, Pilatus, Cub Crafters and more will be on hand to show off their new airplanes.

May 30-June 6, 2019, 1-26 Glider Championship and Low Performance

Contest — Moriarty, NM — Hosted by 1-26 Association. Practice days May 28 and 29, 2019. Special sponsorships for pilots 30 years of age and younger who qualify. Contact: Ridge Moreland at 407-474-7748 or jrmoreland@bellsouth.net.

June 3-7, 2019, 25th Annual Glider Thermal Camp — Reno, NV — Spend a 5 day week at Air Sailing Gliderport improving your thermaling skills. Classroom instruction in the morning and soaring in the afternoon. Air Sailing offers excellent classroom accommodations and exceptional soaring conditions. This camp is offered every year and is always very popular. See our website for more information and to sign up. www.airsailing.org

June 3-8, 2019, Region 5 South Glider Contest — Cordele, GA — Hosted by Cordele Racing LLC. Practice days June 1 and 2, 2019. Contact: Chris Carter at 770-843-4099 or flycordele@yahoo.com.

Speaker Series at the NE Air Museum (BDL)

July 22 - Maiden Flight - The Role of Katharine Wright

Guilford author, **Henry Haskell** comes from a long line of Henry Haskells - his father, and his grandfather whose second wife was the sister of Orville & Wilbur Wright - Katharine Wright. Haskell will bring together the love and strife experienced by Katharine, her husband Henry Haskell and brother Orville.

August 19 - B-29 Bomber - The Story of FiFi

Don Boccaccio, a crew member and tour leader on *FiFi*, one of two B-29 WWII bombers still flying, provides a "Behind the Scenes" look at *FiFi* and what it takes to keep wind under her wings.

November 18 - The Real Story: The JFK Jr. Accident

Steve Demko was a National Transportation Safety Board investigator for the aircraft accident in which John Kennedy Jr. lost his life. Steve will tell the real story of what happened that night off of Cape Cod. Steve's wife, Jill, also from NTSB, will overview the operations of that outstanding organization.

If you're looking for something to do next weekend check out



at support@socialflight.com. This site publishes interesting events on a Friday describing what you might do and where in the coming weekend, too short a time horizon for this Newsletter but certainly worth reviewing if you want some suggestions for the next few days.

Socialflight also has a new feature:

“Burger Flight, which makes finding a terrific airport restaurant as easy as tapping on a screen. Burger Flight is included in SocialFlight’s free app, and it shows airport restaurants as burger symbols on the map. Thousands of airport restaurants are featured on the moving map.” From <https://www.flyingmag.com/burger-flight-helps-pilots-find-airport-restaurants?cmpid=ene20190411>

Some Interesting Meetings and Podcasts (Note CDT for some)

Tips for Flying Into EAA AirVenture 2019

Tuesday, June 11 at 7 p.m. CDT

Presenter: Fred Stadler | *Qualifies for FAA WINGS credit.*

AirVenture 2019 Ultralight/Homebuilt Rotorcraft Arrival Procedures

Wednesday, June 12 at 7 p.m. CDT

Presenter: Mark Spang | *Qualifies for FAA WINGS credit.*

Managing Energy and Developing Style: A Beginner's Guide to Advancing in Aerobatics

Tuesday, June 18 at 7 p.m. CDT

Presenter: Aaron McCartan | *Qualifies for FAA Wings credit.*

EAA AirVenture 2019 Features and Attractions

Wednesday, June 26 at 7 p.m. CDT

Presenters: Rick Larsen and Dennis Dunbar

New Member Benefit: EAA Videos

After extensive development and testing, we've fully integrated our video content within EAA.org. Now, when you visit the site, you can click the Videos tab at the top to access thousands of titles covering everything from aviation history to Hints for Homebuilders, and all of it is available free of charge by using your existing EAA member login. Please note that the legacy site will be retired soon, so please update your bookmarks or links.

SUGGESTIONS, SERVICES, PHOTOS, ETC.

If you have comments, suggestions, news, photos or whatever for this newsletter, or want to be dropped from the mailing list, please forward to tedjgordon@gmail.com.

August 17 Groton Airport
National Aviation Day

**Groton - New London Airport
Celebrates National Aviation Day
Homebuilt Rally!**

**6th Annual Open
House & Walking
Tour**

**Saturday August 17, 2019
10AM - 2PM**

**155 Tower Avenue
Groton, CT 06340**

- Aircraft Static Display
- Scenic Helicopter Rides
- Guided Facility Tours, Indoor Exhibits & More

**FREE
ENTRY**

To Exhibit Aircraft, email: dsellins@comcast.net

Photo: W. V. White



CLASSIFIED SECTION

Anyone can list equipment, products, materials, and what not for sale or wanted in this classified section. Please include a description, and your contact information if applicable. Listing is free. Your input will remain active for the next few newsletter issues. EAA 334 will not be involved so if you see something of interest, just initiate the contact.

Partial hangar for rent. If your plane or trike is small or if the wings come off (intentionally) and you are looking for a storage place to rent



A FREE preflight de-icing sprayer is also available.

Just call or email:

Ted Gordon 860 434 8608 or
tedjgordon@gmail.com

Anyone can recommend a person, product, or company here that they have found helpful or useful. You can even recommend yourself. Please include the nature of the service or product, and contact information if applicable. Listing is free. Your input will remain active for the next few newsletter issues. EAA 334 will not be involved so if you see something of interest, just initiate the contact.

A&P Mechanic with IA

EAA Technical Councilor 15 years

Builder of the Glasair N28P, first flight June 1999

Designated Airworthiness Representative, Manufacturing (DAR-F)

Amateur Built Experimental and Light Sport Aircraft

Extensive experience composites, engines

If you'd like anything else, ring me up.

Greg Prentiss, 20 Dockerel Road, Vernon, CT 06066, greg.prentiss@gmail.com

860-872-2278 Home/Office, 860-205-7640 Cell

SimplexAero, owned by Jeff Erickson of Old Saybrook, teaches tail wheel and provides sport pilot training. He also offers scratch plans for the Cloud Duster and the Zing.



Membership Application

EAA 334- Fulfill your dream to build and fly. Guaranteed

Our club is dedicated to flying of all sorts. We exchange information and experiences. We provide help where needed in promoting safety, airplane construction, and operation. In the summer, our meetings are on the second Thursday of each month, 7:00PM at Dooney Aviation, located at Westerly Airport. Address: 63 Tom Harvey Rd., Westerly, RI. In winter, meetings take place on the second Saturday of each month at 10:00 AM at Dooney's Aviation. We invite you to join us.

To explore membership, join, or renew your membership, please complete this form.

*Select membership type and duration:

- FREE 6 Months Full Membership trial
- One year full Membership in EAA 334 \$20.00**
- One year Student Membership \$12.00 (through 17 years of age)***
- 3 year Membership \$10.00 discount **

*First Name _____

*State ___ ZIP _____

*Last Name _____

*Email _____

*Address _____

Phone _____

*City _____

Aircraft _____

*Required information

** For full membership in EAA Chapter 334, send the completed form and check payable to Bogdan Gutowski <bogdan.gch@gmail.com> ,Membership (\$40.00 per year) in the EAA National organization is also required. For more information go to: <https://www.eaa.org/en/ea/renew-ear/renew-membership>

*** EAA Student Membership is available FREE to any young person age 8 – 18 ½ who has completed a Young Eagles flight,