

Fitchburg Pilots Association EAA Chapter 1454 Newsletter



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- Next FPA Meeting is:
Tuesday Oct 9th at 7:00PM/6:00PM food

Key Organization Links

www.fitchburgpilots.org
www.meetup.com/fitchburgpilots
www.facebook.com/fitchburgpilots/
www.fitchburgairport.com
www.eaa.org
www.aopa.org
www.massdot.state.ma.us/Aeronautics

Key Weather Links

www.windy.com
www.aviationweather.gov
www.usairnet.com

Key Reference Links

www.fltplan.com
www.airnav.com
www.flightaware.com
www.pilotgeek.com
www.skyvector.com
www.aopa.org/aopalive/

President's Corner

October 2018

Let's go fly and have some fun!



Mark Estabrook - N79818
President, Fitchburg Pilots Association EAA Chapter 1454
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Young Eagles Rally

Another successful rally in September. Patrick already sent a nice email summary of the event – but thank you Patrick our coordinator, his mentor Dave Babineau for organizing us, the volunteers for helping us and the pilots for putting a lot of smiles on the faces of some 30 children. We normally have more kids, so the pace was slower than usual and we could take our time with the kids and talk to the parents which made the event very enjoyable for all. The weather was terrific with a slight x-wind most of the morning. Of course on my last landing the wind shifted to quartering tailwind and I got a little extra taxi practice as I missed the turn off and had to go all the way down the runway! If you have not flown for Young Eagles, you



should consider it. It is very rewarding to bring the excitement of flight to the kids. I passed my 100th Young Eagle flown this year, and I couldn't be prouder to be part of this excellent EAA program.

Fly Outs

Fly outs have been a big part of our organization for years. I often hear people say they want to do more fly outs – and that’s great! Are you interested in leading any fly outs? Drop me an email and let me know and I’ll brief you on what it takes... it’s not much, just some interest and time for the fly out! As a reminder, if you are looking for a place to fly to, we have a handy guide published on our web page that might give you some ideas under the member’s only section. If you have any trouble logging in just let me know.



Smile – at Amazon Smile

Last month’s newsletter introduced a program from Amazon where they will donate ½ of 1% of purchases to a favorite charity. The FPA is one of those registered charities. This is great and easy way to generate donation money for the FPA/EAA1454. I use Amazon a lot (too much?) and I’ve now got this feature locked and loaded. It was really easy to do, just go to www.smile.amazon.com and follow the simple directions. Search “Fitchburg Pilots Association” when prompted and

you are there, it’s your normal except you’ll be selected charity. have to sign into



you’ll find us. Once exactly the same as Amazon account, donating to your From then on you only amazon via the

www.smile.amazon.com web address each time you log in. We deposited our first check from Amazon for \$17 last month. Let’s see what we can do to bolster that number!

Lastly we have a great couple of programs coming up at our October and November member meetings.

- **October:** Bob Smith will describe his RV-12 build, and will have the aircraft on display in the hangar
- **November:** FAA Wings Program: Our buddy Doug Stewart will present “Weather-Beyond the Standard Briefing”. Look for details on Meetup.com and we hope to you see you there! In the meantime...

Fly safe and have fun!

Mark

President FPA /EAA 1454

FPA / EAA 1454 Officers, Committee Members, and Key Contributors

Please note: Any member can be emailed through the Members Section of our FPA Meetup Site

Officers	Names	Committee Chair and Members	Names
President	Mark Estabrook	Fund Raising	Chris Lund
Vice President	Glen Reinhardt		
Treasurer	Gary Daugherty	Food	Glen Reinhardt
Secretary	Dave Babineau		Dave Dion
			Bob Scales
			Dave Babineau
			Chris Lund
			Gary Daugherty
			Dick Maki
		Scholarship	Jim Bisson
			Dick Maki
			Mark Estabrook
			Ed Murphy
		Safety	Dave Dion
			Gary Daugherty
			Dick Maki

New Members!

We'd like to welcome all new members who have signed up on Meetup in the last month.

New Members for October 2018

Susan Mondor Reedich: Susan owns a Bonanza A36 and is a CFI

!! FOR SALE !!

Craftsman 13HP Airplane Tug
Converted from lawnmower; no cutting deck

Hitch point at front and rear
Best Offer!
Dave Babineau - 508-331-1552



AMAZON SMILES AT FPA!

When shopping at Amazon (actually, AmazonSmile), you can raise money for FPA! FPA is a registered charity with AmazonSmile, so a percentage of the purchase price of eligible products is donated to FPA when you designate FPA as your charity of choice! FPA is listed as "Fitchburg Pilots Association, EAA Chapter 1454", so that's the name you should look for. When asked to search for your charity, use "Fitchburg Pilots Association" and it should find our charity.

Here's a blurb from the website:

AmazonSmile is a website operated by Amazon with the same products, prices, and shopping features as Amazon.com. The difference is that when you shop on AmazonSmile, the AmazonSmile Foundation will donate 0.5% of the purchase price of eligible products to the charitable organization of your choice.

Every item available for purchase on www.amazon.com is also available on AmazonSmile (smile.amazon.com) at the same price. You will see eligible products marked "Eligible for AmazonSmile donation" on their product detail pages.

So, if you shop at Amazon, shop at smile.amazon.com and help support FPA!

Aviation Safety Corner

By Dave Dion, FPA Safety Committee Chair

September Topic –From Sporty's Pilot Shop Training Aircraft Engine Mixture Control (quiz answers on page X)

For some student pilots the mixture control is a thing of mystery. It gets pulled out to shut off the engine, so let's just leave it alone in flight. Its operation might seem elusive to new pilots but correct operation is critical to keeping the engine running smoothly and for maximum fuel savings. Answer these questions and see if you're rich on mixture knowledge.

As altitude is gained, the density of air entering the engine decreases yet the amount of fuel will remain the same. This fuel / air ratio can be adjusted using which control?



- The black throttle control.
- The blue propeller control.
- The red mixture control.

Operating an aircraft engine at high power settings and the mixture too lean can result in what condition?



- Detonation
- High cylinder temperatures
- Burnt exhaust valves
- All of the above

One good way to temporarily stop detonation or preignition while in flight would be to



- set the mixture to peak EGT.
- fully enrich the mixture.
- set the throttle to idle.

Which engine instrument is best for determining proper mixture settings?



- EGT
- Fuel flow
- Manifold pressure

What procedure is used to achieve the best power mixture setting without an EGT?



- Lean the mixture until the engine starts to run rough and continue to lean until it runs smooth again
- Lean the mixture until the engine starts to run rough, then enrichen slightly until it runs smooth again
- Lean the mixture until the engine start to run rough, then add throttle until it runs smooth again

Flight Log

By Jeff Scorse

Flying, Fly-In Theater and Camping



One of my bucket list items over the years has been to combine our family's love of camping and flying to great destinations together in a single trip. Last weekend we had that opportunity. Even with our girl's crazy work schedules, we were able to squeeze in an overnighter from Saturday to Sunday. We left KFIT at around 6PM (we had to wait for one of the girls to finish her shift) and arrived at Parlin Field (2B3) about 10 minutes after sunset to the pleasant greeting, on CTAF, by the airport manager, Heath Marsden. The weather was near perfect for the flight, smooth and clear with a memorable sunset.

Parlin Field is located just north of Newport, New Hampshire. Newport is a beautiful small town with everything you'd expect. Parlin Field sports an ample 3448' nicely paved, lighted runway with a smaller crossing turf strip. The clean well-appointed terminal building is open to the public with restrooms and comfy seats and a computer. The building is cypher locked with an easy code to get in after hours. The airport manager, Heath, lives just a few minutes away and is always willing to help with just about any need. There are several bikes in the terminal building that you can borrow for the short ride (1.5miles) in to town.

Saturday night they held a movie night with a hot dog stand for



refreshments. There was a good crowd of families to watch Pixar's "Planes – Fire and Rescue" on a large inflatable screen, with a clear sound system and projector. Everyone sat around on the grass on blankets and enjoyed the show. After the movie, our family retreated to our family tent and quickly fell asleep.

In the morning we were greeted by an amazing lightly foggy sunrise. Heath stopped by during his morning runway inspection and offered a ride to the local diner which we readily accepted. The diner (Country Kitchen) was wonderful with huge portions, great service and a wonderful atmosphere.

I highly recommend adding Parlin Field to your bucket list. It's only about 53 nm to the north over the beautiful NH countryside with a great small airport vibe, bikes and restrooms available, and actively supports on-field camping.



Hangar Happenings

Dave Dion: FPA Aviation Center Manager

We haven't slowed down - so we keep knocking off hangar "to do" tasks.



Windows - Ed Littlejohn helps Glen Reinhardt do a window cutout to install another hangar window.

New retractable projection screen - Dick Maki strikes a friendly pose after working to install the new screen:



Hi Mark Estabrook - FPA Flamingo here. I agree with you ... it will be nice to see you (and you see me) in my flamingo hangout through one of the new hangar windows ;-)



And finally - FPA conducted a fall Young Eagles Event from the hangar on September 16. Here's a sampling of the pilots and happy kids.



Answers to Mixture Quiz:

As altitude is gained, the density of air entering the engine decreases yet the amount of fuel will remain the same. This fuel / air ratio can be adjusted using which control?



- The black throttle control.
- The blue propeller control.
- The red mixture control.

Correct!

Most aviation engines are equipped with a mixture control that is colored red. This control is used to adjust the fuel / air ratio for the optimum combination of power and fuel savings.

One good way to temporarily stop detonation or preignition while in flight would be to



- set the mixture to peak EGT.
- fully enrich the mixture.
- set the throttle to idle.

Correct!

As mixture is increased, the small amount of extra fuel cools the cylinders by evaporation and a rich mixture also burns at lower temperatures. This helps to cool the engine and can reduce or eliminate detonation and preignition.

Operating an aircraft engine at high power settings and the mixture too lean can result in what condition?



- Detonation
- High cylinder temperatures
- Burnt exhaust valves
- All of the above

Correct!

As mixture is leaned, the amount of fuel in the cylinder is reduced and temperatures increase. High cylinder temperatures can result in detonation and burnt valves.

Which engine instrument is best for determining proper mixture settings?



- EGT
- Fuel flow
- Manifold pressure

Correct!

As the mixture is leaned there is less unburnt fuel to aid in cooling through evaporation. Additionally a leaner mixture also burns at higher temperatures. Using an Exhaust Gas Temperature (EGT) gauge will show a direct indication of temperature changes in the cylinder which aids in a very precise lean. A cylinder head temperature (CHT) gauge is also helpful for setting mixture especially when operating lean of peak.

What procedure is used to achieve the best power mixture setting without an EGT?



Lean the mixture until the engine starts to run rough and continue to lean until it runs smooth again

Lean the mixture until the engine starts to run rough, then enrichen slightly until it runs smooth again

Lean the mixture until the engine start to run rough, then add throttle until it runs smooth again

Correct!

Set the mixture so that the leanest cylinder runs approximately 100°F rich of peak EGT to obtain best power. To do this without an EGT guage, begin by leaning until the engine begins to run rough. At this point, peak EGT is obtained. Then slightly enrich the mixture until the engine runs smooth. This ensures that the exhaust valves stay cool. Maximum power is produced along with the highest airspeed, fuel consumption and CHTs.

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FAA Safety Wings Programs

This Wings site that has had an overhaul. Looks and flies easy. Try it!



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