



The Flightline



Volume 46, Issue 11 Newsletter of the Propstoppers RC Club AMA 1042 November 2016



President's Message

A number of members suggested we cancel this month's meeting as it coincides with the Election. Some people come from a distance and would not be able to make the meeting after voting and others are working at the polls.

So let's just save it till the December Indoor Christmas Picnic on December 13th.

Meanwhile make the most of the good fall weather. The fields are in good shape and don't forget the first Indoor meet on Saturday 12th in the Brookhaven Gym.

Dick Seiwell, President

Agenda for November 8th Meeting At the CA Church Room

CANCELLED DUE TO ELECTION DAY

Minutes of the Propstoppers Model Airplane Club October 11, 2016 at the Christian Academy meeting room

Call to order took place at 7:12 PM by Vice-President Chuck Kime

Roll call by membership chair Ray Wopatek showed 17 members present

Minutes of the September meeting as published were approved

No treasurer's report was presented

New Business:

Dates for flying at the Brookhaven gym were announced by the president. We have Saturdays from 6:30 to 9:00 PM on November 12, December 3, 2016 and January 14, February 18 and March 18 of 2017. We also have the gym on Tuesday mornings from 10 till noon.

Plans for a control line area at Elwyn were discussed. The group suggested possible locations.

The meeting on December 13 will be a Christmas party with hoagies and drinks provided by the club.

Nominations for club officers were held. The current officers were re-nominated without opposition. The club voted unanimously for this group. The 2017 officers will be: president - Dick Seiwell, Vice-President - Chuck Kime, secretary - Dick Bartowski, and Treasurer Pete Oetinger.

Adjournment took place at 8:15 PM.

Dick Bartowski Secretary

Show & Tell follows

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Brookhaven Gym Indoor Program 2016/17

6:30 till 9:00

**Nov 12th 2016
Dec 3rd 2016
Jan 14th 2017
Feb 18th 2017
Mar 18th 2017**

Calendar of Events

Club Meetings

Monthly Meetings

Second Tuesday of the month.
Gateway Community Church at the Christian Academy. Doors open at 7:00

Next Meeting; 13th December at the Gateway Church room.

Tuesday Breakfast Meeting

Tom Jones Restaurant on Edgemont Avenue in Brookhaven. 9 till 10 am. Just show up.
Flying after in the summer at CA or Elwyn Field 10 am. Weather permitting.
Indoors at the Brookhaven Gym in bad weather 10:30-11:30 See dates allowable.

Regular Club Flying

At Old Christian Academy; **Electric Only**

Monday through Friday after school till dusk

Saturday 10 am till dusk

Sunday, after Church; 12 pm till dusk

At Elwyn Field; Gas or Electric

Monday through Saturday 8 am till dusk

Sunday 12 pm till dusk

INDOOR Flying, see attached dates.

Special Club Flying

Saturday mornings 10 am

Wednesday Helicopter evening in summer

Thursday evenings in the summer

Tuesday mornings 10 am weather permitting after breakfast.

Check our Yahoo Group for announcements;

<http://groups.yahoo.com/group/propstoppers/>

Beginners

Beginners using due caution and respecting club rules may fly Apprentice or similar models without instructors at Christian Academy Field.

The club also provides the AMA Introductory Pilot Program for beginners without AMA insurance.

Propstoppers RC Club of
Delaware County, Pennsylvania.

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Propstoppers Web Site; www.propstoppers.org

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Show & Tell

Given the talk about U/C flying at club fields Dave Harding decided to bring in a fleet of his U/C racers from the 1960s.

He showed four control line speed class airplanes from the sixties and seventies. They were powered by a variety of glow and diesel engines.



The three racing models in front are all Team Racers. Team Racing is where up to four models are flown against each other in a race.

The four pilots stand closely in the middle of the circle flying their models so they overtake and land during the race like this;

Note the pit crew in the background waiting to refuel their model, which will land at their feet and be grabbed for the service.





These are some of the .15 sized diesel engines used in Class A, Goodyear and FAI Team Race. From the bottom right; this is the Cox 15 TD Special Mk II converted to diesel by machining the glow head to accept a contrapiston; the element which is moved up and down to adjust the compression ratio. Model diesel engines operate with ether based fuel for compression ignition. The mixture is compressed until the ether reaches ignition temperature. Compression must be adjusted to control the ignition timing by screwing in and out the contrapiston. This converted engine was very successful in the Pa/NJ/NJ racing circuit in the mid 60s. The engine above it is similar but also features extensive cooling fins and a custom machined head and contra piston. This engine was fitted into an FAI Team Racer. The engine top center is a Super Tigre G20 diesel from the 1960s. The engine top left is a modern MVVS 15 diesel bought to experiment in SAM Texaco events. The engine bottom center is a Russian diesel with a rear rotary valve also bought to try for SAM events. The MVVS and Russian engine both feature Schneurle transfer porting. But that is a story for another time.



Ken Merlino showed a Brodak kit control line model that he built. It is in ME 109 profile airplane. It is covered in clear doculam and painted.

FPV on a Budget

Submitted by Ron Lauser

I don't consider myself an expert on FPV flying – I believe their members of the Propstoppers who have much more experience in this subject and I'm willing to direct you to them. Before flying FPV please familiarize yourself with the FAA rules and regulations on this subject.

Last January I purchased a Durafly Tundra from Hobby King which included a bag of precut plywood parts to build an FPV canopy. While I had some exposure to FPV (First Person View flying) from quad flying friends I had met at the field, I had never thought about trying FPV on a fixed wing model and after pricing the components I assumed an FPV setup would be way out of my price range. The components of an FPV setup include a set of goggles, the most popular (FatShark, Headplays) costing at least \$300, Video receiver (if it isn't already built into the goggles), and a video transmitter and camera both of which get attached to the plane. Not wanting to spend \$300+, I put the FPV canopy parts in drawer and stuck with line of sight flying.

Until one-day last spring when I saw a Hobby King product profile on YouTube for a set of DIY FPV goggles named the Quantum V2 Pro. The Quantum V2 Pro goggles weren't as compact as the Fatshark goggles but at cost of less than \$70, I was willing to give them a try. Another video on YouTube titled "Great FPV on a budget" directed me to Banggood for the video receiver for \$57 and I was also able to find a video transmitter and camera package on Banggood for \$33. The nice thing about the video transmitter and camera is that they get their power from balance port of the plane's three cell lipo battery. The Quantum V2 Pro goggles and video receiver get their power from an additional two or three cell lipo battery which is stored in a pocket of the goggle sleeve. The only drawback to this FPV setup is there is no way to record the video. Because of the low resolution of the FPV camera, most FPV models have a dedicated camera for recording such as a Mobius, RunCam, or Key Fob camera. I'll leave the cost of the cameras



So there you have it, an FPV setup for approximately \$160. If you are interested in more info, check out the links below and the info on the flowing page. I'm just a novice at FPV but if you need any additional info on my setup you can always shoot me an e-mail at ronald.lauser@gmail.com. Happy Flying!

Quantum V2 Pro FPV Goggles Product Profile - www.youtube.com/watch?v=k2TQnR-r0ko

FPV on a Budget Video - www.youtube.com/watch?v=PrQYdr8GgLY

FPV on a Budget Items – total cost approx. \$160

FPV Goggles

Quantum DIY FPV Goggle V2 Pro sold by HobbyKing

\$61.55 plus shipping from the East Coast Warehouse

https://hobbyking.com/en_us/quantum-diy-fpv-goggle-v2-pro.html



Video receiver

Boscam FR632 Diversity 5.8GHz 40CH Receiver sold by Banggood

\$56.99 with free shipping from Banggood

http://www.banggood.com/Boscam-FR632-Diversity-5_8GHz-32CH-Auto-Scan-LCD-AV-Receiver-p-958097.html



Board Camera and Video Transmitter

Eachine CCD 700tvl 148 Degree Camera Lens w/ 5.8G 200mW FPV Transmitter sold by Banggood

\$32.99 with free shipping from Banggood

http://www.banggood.com/Eachine-CCD-700tvl-110-160-Degree-Camera-Lens-w-5_8G-FPV-Transmitter-p-977402.html



December 13th Monthly Meeting Indoor Christmas Picnic

Once again we plan to hold an Indoor Picnic for our December Christmas Meeting. The club will provide Hoagies with chips and dips etc, sodas and coffee. Club members are encouraged to bring something to share if they have the inclination. Let's make it as successful as the last one.



2016 EAA Oshkosh Flying

Eric Hofberg suggested members might be interested in some pictures from this year's Oshkosh EAA fly-in.
<http://talk.newagtalk.com/forums/thread-view.asp?tid=656700&mid=5523936#M552>





Ok, I admit it, just had to include this one, a Sopwith Pup. Why you ask? Well I am a Hawker Aircraft Apprentice and in one of my shop assignments I worked in the tool room. The tool room was in the original Sopwith factory.

Sopwith became Hawker Aircraft after the WWI. See the decal below.

Dave

