The Flightline

Volume 46, Issue 12 Newsletter of the Propstoppers RC Club AMA 1042 December 2016

President's Message

Well, we have had another good year. Both fields have been used to the full and those that have taken advantage of them have had a good deal of fun.

We have also seen a steady stream of new members maintaining a healthy club.

So it is time to come together for our last event of the year our Christmas Indoor Picnic. Come on out and share this festive event with your fellow Propstoppers.

See you there
Dick Seiwell, President

Agenda for November 13th Meeting At
At the CA Church Room
Christmas Indoor Picnic
7:00 pm till 8:30
Hoagies, Chips and Drinks provided
But
Feel free to bring something to share.

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Brookhaven Gym Indoor Program 2016/17

6:30 till 9:00

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.
Club Officers

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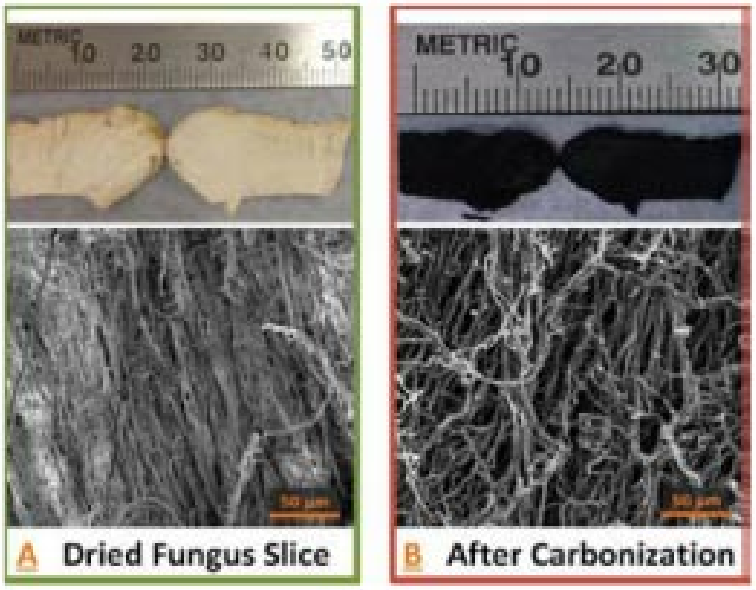
Propstoppers Web Site; www.propstoppers.org

Fungus-inspired improvements in battery performance

Carbon fibers derived from a sustainable source, a type of wild mushroom, and modified with nanoparticles have been shown to outperform conventional graphite electrodes for lithium-ion batteries.

Researchers at Purdue University have created electrodes from a species of wild fungus called Tyromyces fissilis. "Current state-of-the-art lithium-ion batteries must be improved in both energy density and power output to meet the future energy storage demand in electric vehicles and grid energy-storage technologies:' (*and toy planes; Ed*.) said Vilas Pol, an Associate Professor in the School of Chemical Engineering and the School of Materials Engineering.



"So there is a dire need to develop new anode materials with superior performance." The anodes in most of today's lithium-ion batteries are made of graphite. Lithium ions are contained in an electrolyte, and those ions are stored in the anode during recharging.

Pol and doctoral student Jialiang Tang have found that carbon fibers derived from Tyromyces fissilis and modified by attaching cobalt oxide nanoparticles outperform conventional graphite in the anodes. "Both the carbon fibers and cobalt oxide particles are electrochemically active, so your capacity number goes higher because they both participate," The hybrid anodes have a stable capacity of 530 mAh/g, which is one and a half times greater than graphite's capacity.

From the SAE Journal

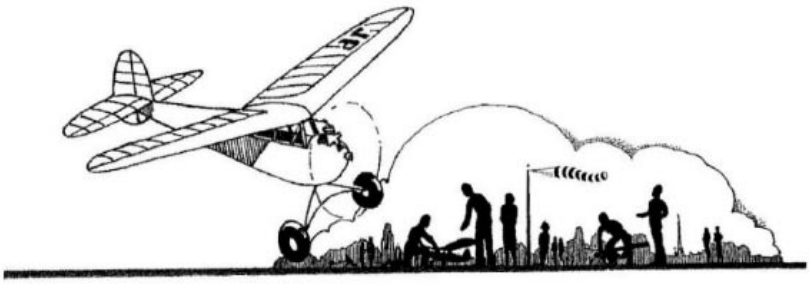
Toy Train Open House

Eric and Peg Hofberg invite all of the Propstoppers family to their annual Toy Train Open House on **Monday, December 26th, 2:00 to 5:00 p.m.** at 836 Surrey Lane, Media.

They have a two permanent layouts: an antique Standard Gauge layout on the main floor and a large O Gauge layout in the basement. Bring your family and friends to this very informal open house.

In lieu of treats for them, Eric and Peg are accepting non-perishable food items (or cash) that will be donated to the food bank run by DIFAN, the Delco Interfaith Food Assistance Network.

If it snowing, we will need to cancel.



Sticks and Tissue

Many of us “Old Guy” members enjoy our lives spent building and flying model airplanes so it is not surprising that we enjoy sticks and tissue. This Sticks and Tissue is a wonderful collection of articles covering the old time models as well as other things that interested us in our youth. Bookmark this archive of past issues;
http://sticksandtissue.yolasite.com/

The Indoor Scene is in Full Stride

Photos by Pedro

We had a miss step for our first Brookhaven Indoor Saturday as we didn't get the advance notice into the Yahoo Group calendar. Still with the post Breakfast Tuesday mornings and the 3rd December Saturday members are enthusiastically pursuing new projects.
Larry Woodward, as usual, is exploring several novel projects, not the least of which is the Walk Along Glider described below.

Walk-Along Gliders: The ultimate in low-tech indoor remote control flight.

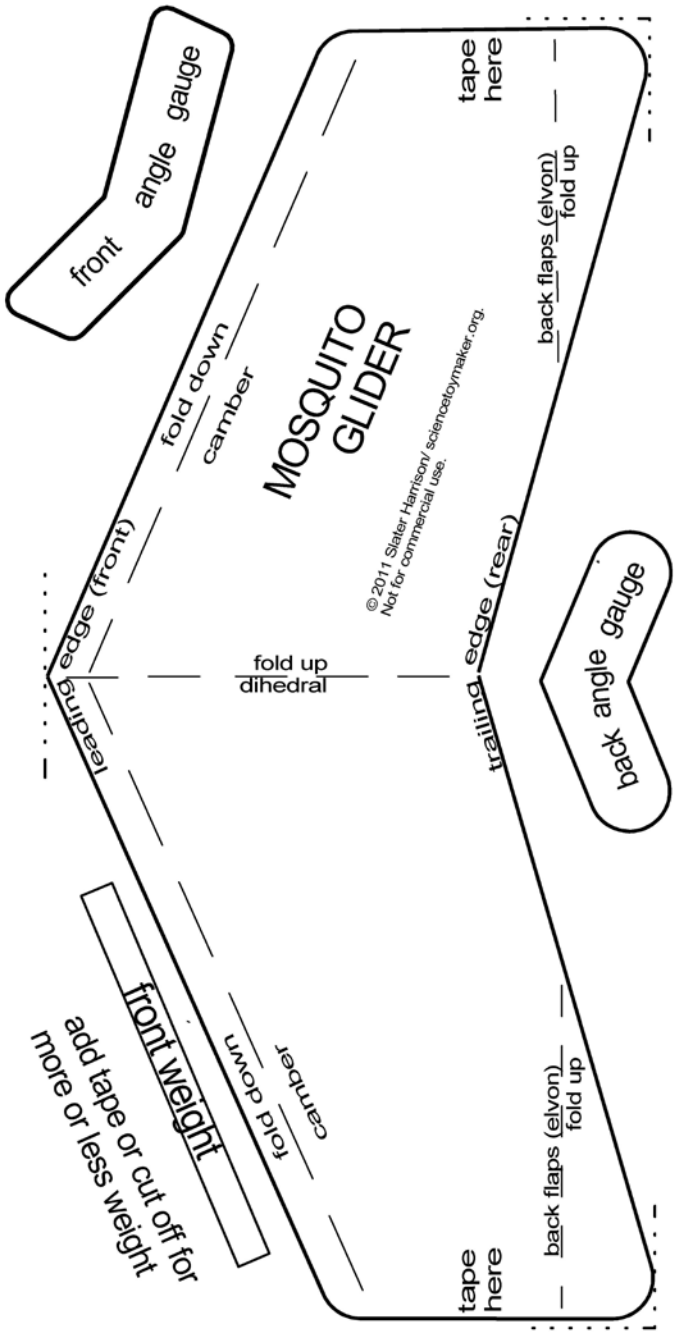
If you search for "Walkalong" gliders in YouTube you will be rewarded with a plethora of videos demonstrating every aspect of these simple little creatures. And among the most popular ones today is the "Mosquito," a simple little guy made from very thin foam.

https://www.youtube.com/watch?v=tac2KXEuANU

In principle, the walkalong glider is a "Slope Glider," where lift is provided by wind diverted upwards against an angled plane, usually a hill or cliff face. In this indoor example, the angled plane is a piece of cardboard or other flat surface and the wind is provided by the "pilot" walking forward in proximity to the glider. Pilot "remote control" is provided by the ability to adjust the angle and speed of the moving plane in a manner that directs the lift in a direction suitable to the desired flight path. When expertly executed, as shown by the children in the video, it is a thing of simple elegance and beauty.

Mosquito Walkalong Glider Pattern

Add a little tape to the front weight for more weight; cut off a little for less weight.



5 cm between lines
SCALE CHECK
2 inches between lines

When printing it is possible for the size of the patterns to become distorted-usually smaller. In the print dialogue box of Acrobat Reader and Safari, do not allow "fit to page"; instead look for "100%" or something similar. For Explorer and Mozilla go to File, Page Setup, and uncheck the "shrink to fit" or similar option. After you print out, there is a 2 inch/5 centimeter scale check to make sure it's correct.

CAUTION: The thin foam used for the Mosquito glider could be a choking hazard for small children.

The Mosquito design is deceptively simple. The key to success is in the foam. It requires a VERY thin sheet of the lightest possible foam sheet. The one thing that most of the how-to videos of the Mosquito fail to provide is a good source of this foam. Fortunately for us, we have "connections" throughout the world when it comes to aviation knowledge and know-how. And our intrepid Newsletter Editor just happens to have secured a supply of "Wallpaper Foam" direct from the UK.

Across the pond, where our most prestigious 17th Century structures would be considered mere pretenders to the category of "antique," there are plenty of very old buildings, commonly masonry, and without much in the way of insulation. In winter this leads to condensation on the inside of a building's exterior walls. Apparently, common practice is to install a very thin layer of foam underneath the wallpaper. The thin foam layer relieves some of the surface temperature differential at the surface of the wallpaper and helps control staining from condensation. The material is cheap and readily available.

It occurs to me that many of the RCGroups threads from the UK complain that they can't get the wonderful, and cheap, Dollar Tree Foam Board that we have come to know and love through Flitest. Well, maybe we have the opportunity here for some international trade in coveted scratch build materials.

Anyway this stuff, wallpaper foam, is like a sheet of smoke. If you look at it funny, it falls apart. But it really does float like a butterfly.

To make a Mosquito, you cut out the simple delta wing from a small rectangle of foam and make a few VERY CAREFUL bends to produce wing camber, dyhedral and elevons. Then a very small strip of nose weight is added with paper or thin wire. That is it. now comes careful trimming and test flights until you have a perfect glide. The rest is pure joy of flight.

Larry Woodward

Quando il rarefatto umorismo inglese
diventa un po' mediterraneo
Translation;
When the rarefied English humor
gets a little 'Mediterranean

Editor's Note;
This is from an Italian model club newsletter. Many Brits vacation on the Italian beaches. (They do ***not*** *do the "culture and history" bit; just follow the sun)*
Euro rules about nudity are much more lax than in Britain (and a WHOLE lot more than in the US).
So the Italians make fun of the Brits on the beach.

Membership Renewal For 2017

Membership renewal for 2017 is now required. You can renew by mail or at the club meeting in December or January.

Don't lose your club privileges!

Bring cash or check and your AMA card.

Dues are $60.

Please send a check ***made out to the Propstoppers*** to;

Ray Wopatek

1004 Green Lane

Secane, PA. 9018

Please enclose a ***copy*** of your current A. M. A. Membership card,

And Please, Please enclose a Stamped self- addressed envelope.

Ray Wopatek Membership