

Thrustline

Springfield Model Airplane Club April 2009



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QUICK LINKS

From the Editor:

Spring has sprung! Well, sort of. A few hearty souls have been out at the field on a couple of nice days. Dave Snyder, Buzz Massey and I have been out test flying some combat planes. My newest version "VooDooToo" (my tribute to Riley Wooten and the original VooDoo) is the best yet. Moving the pivot point of the aileron horn rearward eliminated the reverse differential created by the severe angle of the aileron servo horn that the FFF and Fearless One exhibited. I really like the combination of the Tower Pro 2408-21 motor, 3cell lipo and the 8x4 or 8x6.

The Weak Signals Expo (Toledo Show) is this weekend, April 3, 4th and 5th. SMAC will be well represented. Bob Laybourne will be manning the SAM booth as usual. Our two team Futaba members Bill Cline and Rick Barch will be in the Futaba booth on Friday answering questions and as "Exhibitor Emeritus" I'll be working the floor all weekend. This is the premier model show of the year and it's in our backyard. Come check out the new products meet some of the greats in the hobby.

Suggestions/Articles/For Sale items are always welcome - Deadline the 20th of the month.

Azarr

Next Meeting: Tuesday 7:30PM Apr 7th 09 Asbury United Methodist Church

Asbury United Methodist Church

From the Secretary: Minutes from the Mar meeting

SMAC Meeting March 3, 2009

Place: Asbury United Methodist Church

Time: 7:30 PM:

Attendance: 22 members

Secretary's report was read by Bruce Shaw and accepted as read.

Treasurer's report was read by Joe Ferrara and accepted as read.

Old business:

Asbury United Methodist Church Vacation bible school is still being planned. When they get their schedule done we'll coordinate a date for them to visit us at the field.

Tables to replace spool to work on our models at the field. We will be trying out a plastic folding table at the west end of the shelter house. Please give us feed back on how this works. Tables at the flight line will be bring your own and take them with you when you leave.

[SMAC Web Site](#)
[SMAC Flying Field](#)
[Academy of Model Aeronautics](#)

Combat: several members in the club are interested in doing electric combat. If you are interested in getting involved see Buzz or Azarr. Send Azarr an email to get the combat newsletter.

New business:

Field clean up is Saturday, May 2nd. The more hands the better. If you have a pull behind sprayer this would be helpful to have more than one to spray the field. If we have gravel on hand, we'll be filling the potholes in the drive.

Gravel: The driveway needs to have more gravel added to fill the potholes. Tom Minnich will be contacted to obtain gravel as he has done in the past.

Hobby Shop: Fastraxx Hobbies is open after moving from Springfield to Fairborn.

[click for their website](#)

They concentrate on RC Cars/Trucks, but are interested in supporting planes also. Stop in and say hello at 8448 Dayton Springfield Road, Fairborn (between Fairborn and Enon)

No other new business the meeting was closed.

The next Club meeting is scheduled for Tuesday Apr 7th, 2009 at 7:30 PM at the Asbury United Methodist Church. 104 E. Clark Street (Rt. 41) North Hampton, OH 45349. As of this writing there is no board meeting scheduled please see a club officer if you have an issue you think should come before the board.

Respectfully Submitted
By Club Secretary Bruce Shaw

Event Schedule

NON FLYING

April 3 - 5 [Weak Signals Expo](#) -

At the SeaGate Centre
401 Jefferson Avenue Toledo, Ohio 43604
April 3rd, 4th, & 5th, 2009
Show hours: Fri/Sat 9am to 5pm - Sun 9am to 2pm

Active Duty Military get in FREE - just show your ID Card at the gate.

May 2nd - Field prep/clean up day 12 Noon
Jun 6th - Wright State Renegades Swap Meet (at Radical RC)

FLYING

May 23-24 - 9th Columbus IMAC Challenge, Westerville, OH
June 13th - WORKS Club - Buy and Fly
Sep 27th - WORKS Club - Super Scale Sunday

Dear Ready Kilowatt

Dear Ready:

I know a 40 flies a 40 size plane" why can't electric be that simple?

E challenged in N. Hampton



Dear E:

Come on E, think back, you do now, but only because of your experience, electric flight is no different. Just as all .40's are not created equal, neither are electric motors (think OS FP 40 vs Nelson 40)

What makes our planes fly is *power* and power is written in terms of *Watts*. 1 Watt is 1 volt x 1 amp. The following rule of thumb works well:

50 Watts/pound of aircraft = flight (think old timer, slow stick etc)
 75-100Watts/pound of aircraft = acrobatic flight (loops/rolls etc)
 125+ Watts/pound of aircraft = extreme acrobatics
 150+ Watts/pound of aircraft = extreme 3D/unlimited vertical

For simplicity, lets say we have a 16oz (1 lb) 3D foamy and we need a motor. So, from above we know we need around 125Watts. The motor manufacturers list recommended batteries, props, constant and burst current. So if we look at Acme Motors they will list something like 2-3 lipo, 10 x 7 prop, constant 15A, Burst 30A.

OK, we know we want 125+Watts
 We know a 3s lipo is 11.1V (under load about 10V)
 We know the motor is rated for 15A constant current
 We know Watts = Volts x Amps
 We know Watts = 10 volts x 15 amps
 TaDa!!! We've got 150 watts for our 1 pound plane.

To make it easier, most kit manufacturers today recommend a motor. Don't forget, our club has some members involved in electric flight for many years, don't be afraid to count on their experience.

Ready

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