



Blue Max Aces

The Monthly Newsletter of the Blue Max R/C Flying Club

Editor – Bradford Walters

Volume 16 – Issue 4

April 2009

Inside This Issue

Gene's Lowdown	1
Meeting Minutes	2
Indoor Flying	5
Meeting Location	5
Instructors	5
Winter Build	5
Editor's Page	6
Birthdays	8
Blue Max Wear	8
Frequency Chart	8
Coming Events	9



**Next meeting
April 20th at
St. Thomas School.
Start time - 7:00 p.m.**



**Time to renew your
Blue Max club
membership!**



**Is your AMA
membership for 2009
renewed?**

Gene's Lowdown

by Bob Davit

Our president has asked yours truly, board member Bob, to provide an update for this month's newsletter as he is indisposed in the beautiful state of Florida (lucky dog).



Flying weather has arrived!!!! It's time to dust off those birds, cycle the batteries and do an overall ground check. As a refresher, here are a few things that are worth a look as you pre-flight/ground check for your first flight in 2009 (taken from our website's "Maiden" checklist):

Battery secure and accepting full charge? (replace if in doubt).

Switch been replaced? Try a switch with a battery indicator (MPI switch). - Engine mount bolts tight? (use loctite if loose). - Prop secure and free from nicks and cracks? - Control surface hinges "sloppy" or cracked? (mainly fabric hinges). - Servo screws tight? Add CA to servo screw hole if loose. - Control Horns/servo arms secure? Fuel tubing on clevises? - Covering in need of some TLC? A little heat, extra material, good as new! - Rubber bands need replacing? (antennae keeps, trainer wings, etc.). - Fuel/Fill/Muffler pressure line in good condition? - Engine in need of a tune up? Valves adjusted? - Address/Phone/AMA #'s inside of plane?

The full checklist can be found here:

http://www.bluemaxrc.com/PDFFiles/maiden_flight_checklist.pdf

And for a great optical battery switch (always know your state of charge):

http://www.maxxprod.com/mpii/mpii-4_files/5170.jpg

(Venture carries these)

Just a few thoughts prior to fueling up and flying for 2009. Now...off to the basement to put the finishing touches on the "pile of repair" from 2008.

Bob Davit

President

Gene Zerega

Vice President

Pete Sidor

Editor

Bradford Walters

Board of Directors

Bob Davit

Rudy Krolopp

Duane Lang

Don Linder

Secretary

Murry Randell

Treasurer

Duane Lang

Webmaster

Pete Sidor Jr.

COMMITTEES

Banquet

Tom Jetson

Frank Stillson

Kurt Schmitt

Field Marshal

Matt Hauser

Flying Proficiency

Yohay Hahamy

Fun-Fly

Pete Sidor

Ground Crew

Gene Zerega

Matt Hauser

Noise

Bradford Walters

Picnic

Carl Will

Programs

Bob Davit

Rudy Krolopp

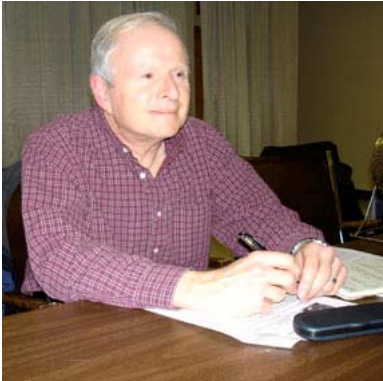
Safety

Don Linder

Sam Rimer

MEETING MINUTES

by *Murry Randell, Secretary*



**Blue MAX R/C Flying Club
March Meeting Notes**
Meeting Date: March 16, 2008
Secretary: Murry Randell

The March 16, 2008 meeting of the Blue Max RC Flying Club was called to order at 7:00 p.m. by President **Gene Zerega**.

Welcome Guests

Don Barclay, Jeff (?) were guests at this month's meeting. **Don Cameron**, a former member, returned after a hiatus.

Pilot's Briefing

Bob Davit had a brief program about historic events in aeronautics and space.

Around the Hangar

President Report: Gene Zerega – No report.

Secretary Report: Murry Randell – February minutes were accepted as published in the newsletter.

Treasurer Report: Duane Lang – Our balance is \$4762.40 before the meeting. All banquet bills have been paid.

Committee Reports:

- ✦ **Banquet: Frank Stillson** – No report.
- ✦ **Field Marshal: Matt Hauser** – We will roll the field as soon as the conditions are right. Our new Forest Preserve contact is Jim Hackett, an RC flyer himself.
- ✦ **Fun Fly: Pete Sidor** – April will be Las Vegas Crap Shoot. We may adopt a point system for season champion.
- ✦ **Newsletter: Bradford Walters** – No issues.
- ✦ **Noise: Bradford Walters** – No issues.
- ✦ **Picnic: Carl Will** – No report.
- ✦ **Proficiency: Yohay Hahamy** – No report.
- ✦ **Program: Rudy Krolopp/Bob Davit** – No report.
- ✦ **Refreshments: Carl Will** – Thanks again to **Carl**.
- ✦ **Safety: Don Linder/Sam Rimer** – No report.
- ✦ **Webmaster: Pete Sidor Jr** – No report.
- ✦ **Membership: Pete Warenski** – No report.

Old Business

None

New Business

Mike McGee asked for more help with the delta dart project at the St. Thomas School on the 23rd and 25th of April.

Don Linder invited people to attend the G.A.S. Club meeting of March 25th to hear the speaker, Jarvis Yeh, of Maxx Products. The meeting is in Buffalo Grove at the youth center building by the golf course.

Unhappy Landings

Gene Zerega turned on his electric plane with the wrong model programmed into the transmitter. The throttle was reversed and the motor went to full throttle instantly.

Bob Wisinski crashed his Avistar due to too slow air speed on takeoff.

Pete Warenski took off downwind too slowly with his NexSTAR and crashed.

Building Tips

Jim Keehan showed how to use a template to align holes in your cowl for access to needle valve and adjustments. He used a triangle, masking tape, and a ruler.

Terrance Kelly gave tips for constructing a wing from scratch.

Bob Wisinski showed using a sheet of masonite to strengthen a sheet of glass as a cutting surface. He glues a paper tape measure to the glass. He frugally re-sharpens his x-acto blades.

New on the Radar



Elvin (?) - .20 electric P-51 RTF from Banana Hobbies. It's \$200 and took about 40 min. to assemble.



Bradford Walters showed a Kyosho Super Stearman kit with Snoopy that he got at a swap meet for \$220.



Bill Smead showed a foam plate twin build from scratch weighing 17 grams. Also a Staggerwing using a design from Scott Christensen weighing 18 grams plus 12 grams of paint. He plans to use lighter paint.





Rich Frost brought a combat fighter about 15 years old.



Carl Will – Seagull Models Extra 260 ARF with a 70” wing span and a gasoline engine.



Pete Warenski - Tiger .60 Aeromaster

Top Gun



Bob Wisinski won the \$50 Venture Hobbies Gift Certificate.

Meeting adjourned at 8:45 p.m.

Indoor Flying – Mike McGee

ARE YOU LONGING FOR A CHANCE TO FLY DURING THE WINTER? We have been flying in the giant gym at Forest View Education Center in Arlington Hts. under the auspices of their Community Education program.

A new set of 10 sessions starts on 2/23/09 and runs through 5/4/09 (except 3/23) from 2:30 to 5:30 p.m.

Registration is now.

Course number: Enter 'fly' in the search

To Register: Call 847-718-7700 or visit the website at www.ce214.org or

Cost: \$44 (\$34 with Gold Card)

stop by the Comm Ed office B106 at 2121 S. Goebbert, A.H.

Meeting Place

Meeting Room #1 (MR 1)
 St. Thomas of Villanova School
 1141 East Anderson Drive
 Palatine, IL 60074

Our meetings are on the 3rd Monday of each month and they start at 7:00 p.m.

INSTRUCTORS

UNLIMITED

Steve Haas
 Yohay Hahamy
 Duane Lang
 Ron Petterec

PRIMARY

Paul Barsamian
 Ed Der
 Don Linder
 Del Peral

Jim Speers
 Frank Stillson
 Bradford Walters
 Carl Will

BASIC

Shlomo Rimer
 Aviv Shoal
 Steve Tomczyk

GROUND CREW

Matt Hauser
 Gene Zerega

WINTER BUILD PROJECT COMPLETE TOP FLITE T-34 MENTOR KIT BY YOHAY HAHAMY



Editor's Page



THE ANSWER TO THE MARCH NAME THAT PLANE

The airliner that was the first to allow the engineer to shift fuel between fuselage tanks to adjust the aircraft's center of gravity is the British Aircraft Corp. Concorde. The first and only person to answer correctly was **Dan Deitemeyer**, who will receive a raffle ticket for the April meeting. See picture below.



APRIL'S NAME THAT PLANE

During WWII it was the fastest piston-engined fighter ever produced. Also the pilot sat on one of the world's first ejection seats. Send all responses to Bradford Walters at Bradford@thehoverzone.com. (New email address)

BUILDING TIPS

R/C Airplane Aerodynamics "Beyond the ARF and Kit" by Bob Davit

We've all asked the same question when preparing for a maiden flight after a "winter" build; "Looks great, will it fly straight?" In almost all cases, the answer is yes. However, as we *venture* (plug for Venture Hobbies) beyond the readily available ARF's and Kits, aerodynamic questions become more important. **Where is the center of gravity? Is the plane too heavy for stable flight? What is the stall speed?** And how do you calculate these? The most important of these is center of gravity or **CG** (in my humble opinion). Here is a simple calculation as well as a rule of thumb **for trainers / rectangular winged aircraft**:

CG (center of gravity) = $\frac{1}{3}$ MAC (Mean Aerodynamic Chord)

If the Mean Aerodynamic Chord (width on a rectangular wing) is 9", the CG will be $\frac{1}{3}$ of 9. Therefore your CG is 3" from the leading edge of the wing.

Rule of Thumb: Center of Gravity (CG) is $\frac{1}{3}$ of the wing's width behind the leading edge.

For complex wings (swept, multi panel, etc.) a CG calculator will be needed to determine the location as more variables come into play. Here are a few I found on the web:

http://www.geistware.com/rcmodeling/cg_calc.htm

http://adamone.rchomepage.com/cg_calc.htm

http://adamone.rchomepage.com/cg2_calc.htm

An area that I'm always on top of is **flying weight**. I tend to put additional "do-dads" in a plane that have a high cool factor, but can be hazardous to flight stability. A calculation that will provide a "go/no-go" decision is **WING CUBE LOADING**. Most of us refer to wing loading in ounces per square foot (oz/ft²), but a 1/6 scale and 1/4 scale have different flight characteristics under the same wing loading (as would a full scale plane). Therefore, cubing eliminates the difference between scales and can be used on any aircraft.

$$\text{Wing Cube Loading} = \frac{\text{Weight (oz.)}}{(\text{Wing Area (sq.ft.)})^{1.5}}$$

An example: Wing Length = 5.5 feet (66 inches), Width/MAC = 1 foot (12 inches)

$$\text{Area} = 5.5 \times 1 = 5.5 \text{ sq. ft.}$$

$$\text{Weight} = 112 \text{ oz. (7 lbs.)}$$

$$\text{Therefore: Wing Cube Loading} = \frac{112 \text{ oz}}{(5.5 \text{ sq. ft.})^{1.5}} = \frac{112}{12.90} = 8.7$$

Rule of Thumb:

Gliders:	Under 4	Wing Cube Loading
Trainers:	6-8	Wing Cube Loading
Aerobatic:	9-10	Wing Cube Loading
Scale:	11-13	Wing Cube Loading
"Hot-Rods":	13 and above	(twins, multi-engine, racers, etc.)

I ran this calculation for a C-130 (currently on static display) with a wing loading of 60 oz/sq. ft....the Wing Cube Loading came in at 17.1!!!! (4 engine plane).

Wouldn't it be great if we could calculate the **stall speed** of our aircraft? The hard part would be KNOWING the speed, but for grins, here's a neat rule of thumb (as the calculation requires a maximum coefficient of lift per airfoil, and to calculate that we'd need the airfoil type for each aircraft, so we'll use a basic rule of thumb):

$$\text{Rule of Thumb: } 4 \times \sqrt{(\text{wing loading in oz./sq. ft})} = \text{Stall speed in MPH}$$

An example: Wing Loading = 112 oz. / 5.5 sq. ft. = 20.3 oz/sq. ft. (per above example)

$$\text{Stall Speed} = 4 \times \sqrt{20.3} = 4 \times 4.51 = 18.04 \text{ MPH}$$

$$\text{For the C-130, this would be: } 4 \times \sqrt{60} = 4 \times 7.75 = 31 \text{ MPH}$$

Just a few thoughts I've had over the years and always questioned: "How is that calculated?"

BLUE MAX WEAR

Caps \$10

Sweatshirts \$20

Sizes: Small to 3X

T-Shirts \$10

Available Now!



UPCOMING BIRTHDAYS

April

Ken Grandt 4/23

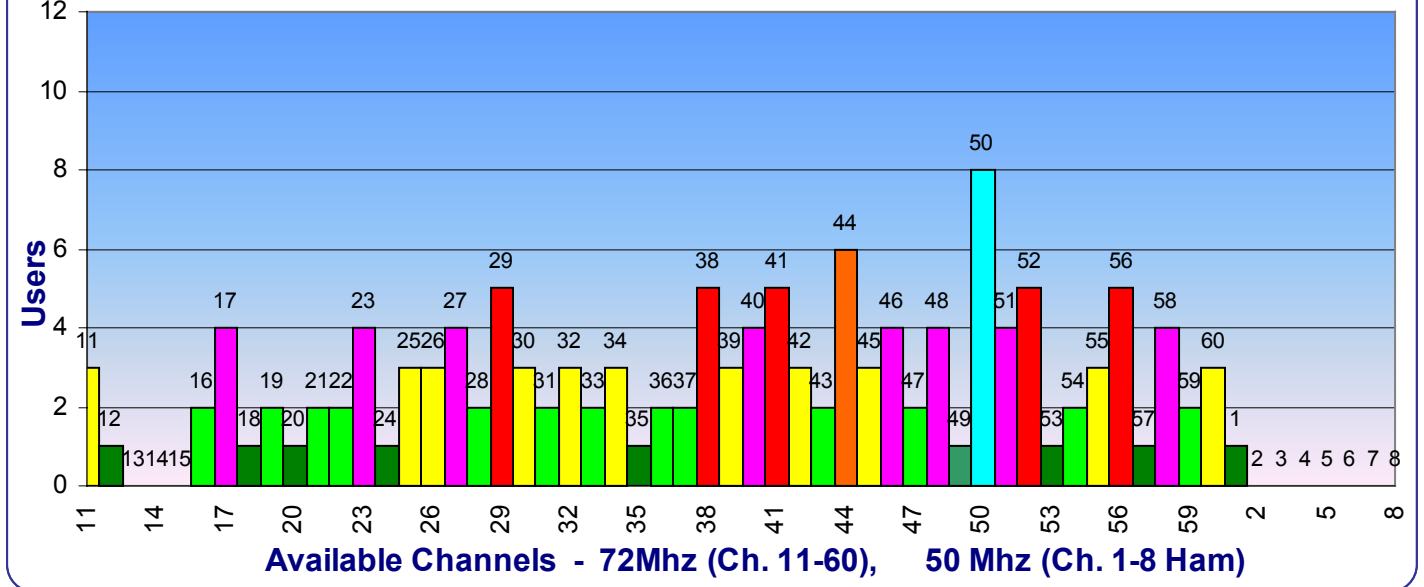
May

Gene Derbick 5/8

Doug Bradbury 5/14

Show your Club Pride at the field!
Wear your Blue Max caps, T-shirts, and sweatshirts.
Caps and sweatshirts are now in stock and available at the meetings.
See Don Linder.

Blue Max Member Radio Channel Usage



FREQUENCY CHART

Please contact Bradford Walters at (bradford@thehoverzone.com) with the following information to add or change radio channel numbers.

1. Your name.
2. All transmitter channels (example: 16, 44, 58 and 50Mhz 4).
3. Any other comments.

Blue Max R/C Flying Club
AMA # 1040
www.BlueMaxRC.com

Look on the web for the newsletter in color.

UPCOMING EVENTS FOR
April 2009 – June 2009

April 2009

- 19) Fun Fly at the field**
- 20) Monthly Meeting – 7:00p.m.**

May 2009

- 18) Monthly Meeting – 7:00p.m.**

June 2009

- 15) Monthly Meeting – 7:00p.m.**



Blue Max R/C
PO Box 7803
Buffalo Grove IL 60089-7803