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News Letter Editor



Visit RC Propbusters online at:  
<http://www.rcpropbusters.com>

Next Meeting is Tuesday May 20th @ 8:00PM.  
The New meeting location is the new Salem Library  
Located on Rt 85 about one mile North of the Salem  
Four Corners.

## April 2008 NEWSLETTER

If anyone has a trainer & buddy box and would like to help out when the Quiet Birdmen come to our field at 4:00 PM on June 5<sup>th</sup>, please call Dennis Duplice

More trainers are needed

860-376-6230

### ***THE COMBINATION HAS BEEN RESET TO NORMAL & THE FIELD IS OPEN***

#### **Tip of the Month**

##### **ALL GUMMED UP**

THE LONG THIN CA APPLICATOR TIPS WORK GREAT EXCEPT WHEN THEY'RE CLOGGED OR GUMMED UP WITH DRIED GLUE. AFTER YOU'VE FINISHED USING THEM, SOAK THEM IN ACETONE; THEY WILL BE CLEAN & WILL LAST INDEFINITELY! THIS WILL EVEN WORK FOR TIPS THAT HAVE DRIED GLUE CA ON THEM, AND IT WORKS GREAT ON SPRAY CAN NOZZLES TOO.

*FROM GRAEME MEARS*



FRED MEYER

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GROTON, CT 06340

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E-MAIL: [FANDPM@TVCCONNECT.NET](mailto:FANDPM@TVCCONNECT.NET)

#### **HIGHLIGHTS**

- CHECK THE FOR SALE ITEMS AND PLEASE ADVISE IF ANY ITEMS SHOULD BE DELETED.
- PLEASE CHECK YOU E-MAIL ADDRESSES AND BE SURE WE HAVE THE CORRECT ONE SINCE SOME OF THEM ARE NOT ACCEPTING E-MAILS FROM ME. LIST FOLLOWS INSTRUCTOR LISTINGS.
- PLEASE PUT MY ADDRESS IN YOUR ADDRESS BOOK SO YOUR SYSTEM DOES NOT THINK IT IS SPAM.
- EVERY MONTH I AM SOLICITING INPUTS FROM ANY MEMBER(S) WHO WOULD LIKE TO FEATURE THEIR MODEL IN THE NEWSLETTER.

**CHECK OUT OUR [WEB SITE](#). RICH IPPOLITO IS DOING A FANTASTIC JOB.**

## For Sale

### 1/3 scale cub (THIS IS A GREAT DEAL THAT JUST GOT BETTER, GO SEE IT)

- 4 -  $\frac{1}{4}$  scale Futaba servos with Metal Gears
- 1 - Fuji 50cc gas engine with spring starter New in Box
- 1 - J-3 cowl
- 1 - PA-12 cowl
- 1 - Set of Balsa USA struts for 1/3 scale Cub. Need fabrication.
- 1 - fuel tank 1500cc (fly for ever) All this for \$975.00 or make an offer.

Call Les Haley (860)536-4082, Cell 860-705-9391 or e-mail [lhaleyrc@aol.com](mailto:lhaleyrc@aol.com)

### JR Receiver and spare X-tals for Sale.

- |  |         |
|--|---------|
| • JR Receiver Model No. NER-226X with X-tal on Channel 39. | \$25.00 |
| • Futaba dual conversion Crystal, CH 34                    | \$ 5.00 |
| • ICL dual conversion Crystal, CH 20                       | \$ 5.00 |
| • Hitech dual conversion Crystal CH 52                     | \$ 5.00 |

Call Fred Meyer @ 860-445-7694 or e-mail @ [fandpm@tvconnect.net](mailto:fandpm@tvconnect.net).

### Two Plane Special \$1200.00 (with Futaba 7 P.C.M.)

1. Great Planes - Super Skybolt Bipe 1/6 scale.  
Includes: O/S 120 Surpass 4 stroke, Futaba Flite Pack/Servos, Removable Hatches for Landing gear and battery compartment. Plane is kit built in New condition, flown test flights only. Ready to Fly.
2. Cap 232 Sport (Breitling) (ARF) 1/6 scale.  
Includes: OS 91 Surpass 4 Stroke, Futaba Receiver and servos. Fun to Fly. Ready to Fly.



### " Can separate for individual offers." (No Reasonable Offer Refused)

3. Boeing F4-B Bipe 1/5 scale. Includes: Super Tiger 2500, Bisson Pitts Muffler, Futaba 6 channel with Flite Pack and servos. Plane is in Flying Condition - Flown only 3 times, Motor needs adjustment and breaking in. \$450.00
4. Tme's Simple Smoke Pump System with Oil Tank \$20.00
5. Slimline Pitts Style Smoke Muffler w/2 adaptors for OS 120 + YS 120 \$35.00 or \$50.00 for both.
6. YS 120 4 Stroke Super Charger System, Pressurized Fuel System with Check valve + fuel lines. One custom made muffler manifold with muffler. One straight pipe for other type of applications in original box with paper work and instructions. 1-2 hours runtime \$250.00 or reasonable offer
7. Top-Flite Muffler header for Super Tiger 0.61-0.75 2 cycle engines - new \$6.00

**Contact Paul Franciosi (860) 445-4482**

## CLUB INSTRUCTORS

TOM VERNON - CHIEF PILOT	860-859-1548	BOB BOUDREAU - FIXED WING	860-443-8421
JOE COMEROSKI -HELI	860-848-3184	RON CZIKOWSKY - FIXED WING	860-388-2953
DENNIS DUPLICE-Fixed Wing	860-376-6230	ERIC EHRENFELS - HELI	860-501-0437
RICH IPPOLITO -BOTH	860-443-0085	BRIAN JOLLIQUEUR-FIXED WING	860-464-9315
PETER KRAUSE - FIXED WING	860-460-8680	FRED MEYER - FIXED WING	860-445-7694
DICK WILKINS - FIXED WING	860-434-1211	DOMINIC TRANCHIDA-FIXED WING	860-442-8145
ROBERT LARSON - HELI	860-526-2267	MARK O'CONNELL - HELI	860-367-9067

IF YOU ARE A STUDENT HOOK UP WITH ONE OF THESE MEN AND GET TRAINED. ANY CLUB PILOT CAN TRAIN YOU, BUT AN INSTRUCTOR MUST SIGN YOU OFF TO FLY SOLO.

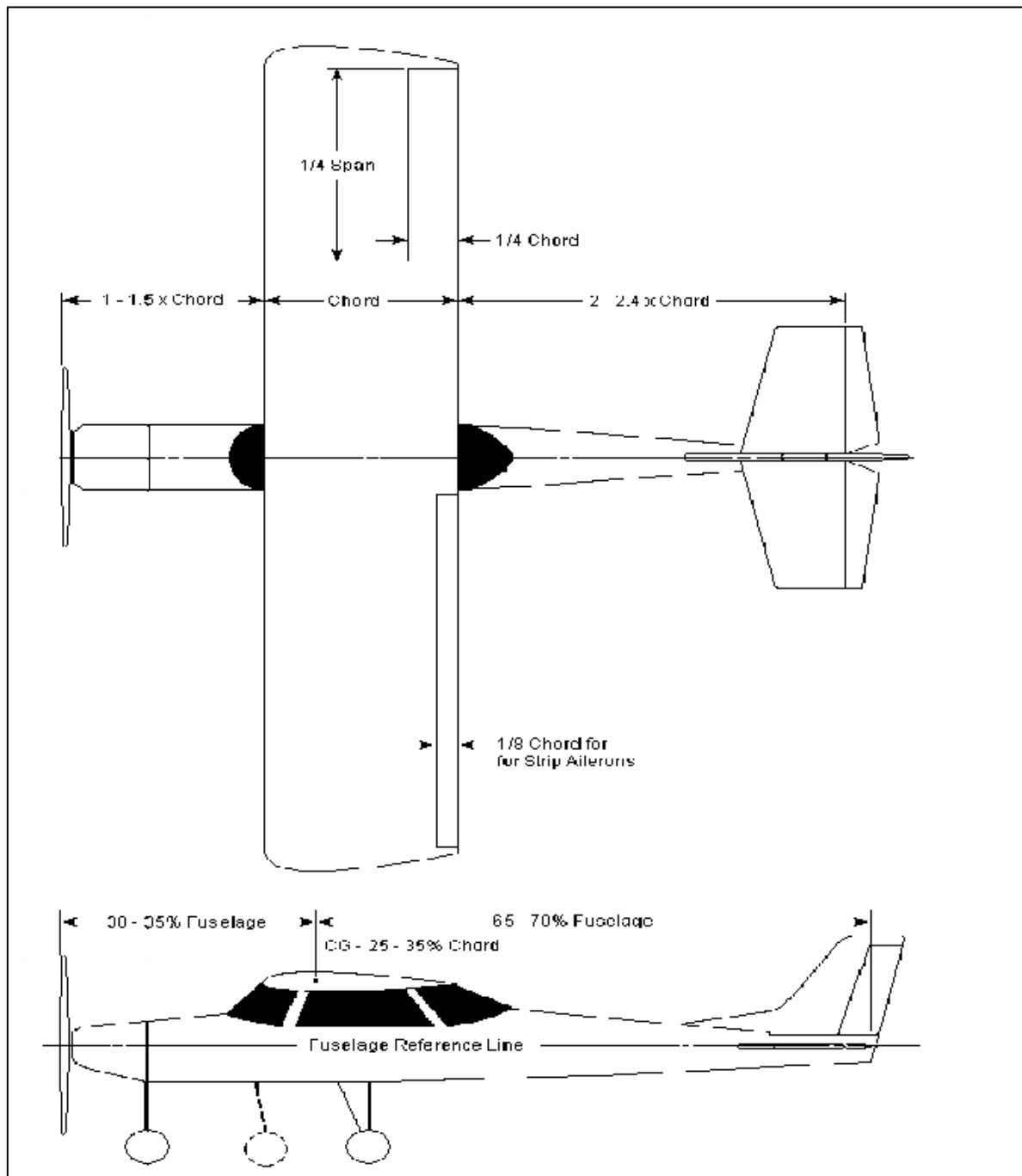
### Model of the Month



Telemaster 40 powered with a Thunder Tiger 40. Solatex covering & complete with flaps  
Built by John Behne. Tom Vernon says it flies great.

# Practical R/C Model Design

Radio controlled model aircraft can be designed using some basic rules of thumb or more appropriately, design parameters. These basic design parameters can be applied to a trainer or sport model. There are no complex or magic formulas to solve. These parameters have been proven to work by a multitude of sport models that have been developed using these rules. A modeler who has built a few models and has gained some knowledge of common structures can design a plane that suits their individual needs.



The design begins with selecting the size of engine that will be used. This will become the determining factor for the entire design. The wing area is first selected from the table.

<b>Engine/Wing Area</b>	
<b>ENGINE</b>	<b>WING AREA</b>
.049	200 - 250 sq. in.
.10	250 - 350 sq. in.
.15	300 - 450 sq. in.
.25	400 - 500 sq. in.
.40	500 - 700 sq. in.
.60	600 - 850 sq. in.

After selecting the engine size and wing area, the next step is to determine the wingspan and wing chord that will give this wing area *and* an aspect ratio between 5:1 and 6:1. If .40 size engine is selected, the wing area will be 500 - 700 sq. in. To make things simple, an area of 600 sq. in. and a span of 60" is chosen. This will give a chord of 10" and an aspect ratio of 6:1. The rest of the design will be based on the chord length.

The next step in determining the configuration of the wing is selecting the airfoil according to the purpose of the model.

<b>Airfoil Type</b>	
<b>AIRFOIL SHAPE</b>	<b>CHARACTERISTIC</b>
Flat Bottom	Slow, docile, forgiving, poor inverted flight
Semi-symmetrical	Good lift, penetration, aerobatic, and inverted flight
Symmetrical	Best aerobatic and inverted flight

[Programs](#) can be downloaded that will draw one of a multitude of airfoils. Airfoils can also be plotted manually using the coordinate dimensions to draw points on the airfoil and drawing the curve of the airfoil using a French curve or flexible rule. The airfoil that is selected should have a thickness of 15% - 18% of the chord at 30% - 40% from the leading edge and should have a blunt leading

edge for gentle stall characteristics. The wing incidence is normally set to  $0^\circ$ . The dihedral will be  $0^\circ - 3^\circ$  with ailerons and  $3^\circ - 5^\circ$  without ailerons. Finally, the type of ailerons that will be used is selected and the size determined according to the chord.

The fuselage length is now calculated using the 10" chord. The nose will be 10" - 15" and the tail will be 20" - 24". Taking the median dimension of these, the fuselage length will be 44 1/2" (12.5" nose + 10" chord + 22" tail). The engine thrust is usually set for  $0^\circ - 3^\circ$  down and  $0^\circ - 3^\circ$  to the right. The landing gear is selected as a matter of preference. A conventional landing gear is set even with the leading edge of the wing. The main gear of a tricycle landing gear is placed 1 1/2" behind the center of gravity. The width of either main gear is 1/4 of the wingspan.

The stabilizer area will be 20% - 22% of the wing area. The area for the 600 sq. in. wing would be 126 sq. in. nominal. The aspect ratio for the stabilizer is 3:1. Using a stabilizer chord of 6 1/2", the length of the stabilizer would be 19 1/2" and the area would be 127 sq. in. The elevator is 20%; of the stabilizer area or 25 sq. in.

The fin is 1/3 of the stabilizer area and the rudder is 1/3 - 1/2 of the total fin area. For the current example, the total area of the fin would be 42 sq. in. and the rudder would be 21 sq. in.

The type of structure that is designed will depend on the use for which the model is intended and the personal preference of the builder. The slab sided fuselages are easier to build than the truss work structures but are also heavier and stronger in most cases. Foam wings are easier to build than built up wings but are heavier and more accurate. A little knowledge of structure goes a long way in the design of a model. In many cases, a modeler will design using the structural configuration of another model and simply change the appearance or the size of the model.

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These design parameters were originally collected by Romney Bukolt and published in "Marcs Sparks" in about 1975. Since that time, the validity of the parameters has been proven by the many different models which have been designed using this method.

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## Minutes of April 15, 2008 Meeting

The April 15, 2008 meeting of the RC Propbusters was called to order at 8:00 PM with 26 members present. The minutes of the March meeting were read by Bill Mares and accepted. Ron Czikowsky gave the Financial Report and it was accepted.

### Committees

**Tractor Committee.** Financing secured by Ron and tractor will be delivered in May

**AMA EVENT.** No news as of yet.

**ALL Model EVENT.** Dates are June 28-29. Paperwork for the sanction has been sent in. Cost will be \$5.00 for 1 or both days and no fee to club members. Fred will be putting some subcommittees together for support of this event, If you want to help out let Fred know.

**Neighborhood Fun Fly.** Will be in August on the 10<sup>th</sup>. Ray, Dennis, Bill will organize this with the help of all club members.

#### Old Business:

Electric Flying at Mohegan Sun will be April 21. It is a Monday evening. Let Dennis know if you are interested in going. They got a new Blimp and we will be looking fo volunteers to fly at games.

Jack Rolled the field and killed the roller. He made arrangements to have it removed from the field.

We are still going to buy a new port-o-potti but we are going to put that on hold for now until we are more sure of finances. The old one will be serviced.

Old tractor is listed on Craigs list. It will be relisted again by Fred.

Dennis will let us know at the next meeting what he needs from us for support of the Quiet Birdmen on the first Thursday in June.

#### New Business:

Jack gave as the news that a farmer has leased the surrounding land for planting of corn. So it looks like corn thermals again.

Tom Thornton, a former member who has rejoined, has offered us a storage box 8' x22' if were interested.

Chuck asked us if he could use the field on Thursday the 17<sup>th</sup> to launch a rocket to support the TV show Wife Swap. He has FAA clearance, it will be one shot around noon.

Chuck asked us about using the field for rockets again. He has given us 3 dates in May 3, 10, 17 and will let us know what day he will want. Voted on and Approved.

#### Good and Welfare

Field cleanup will be Sat. April 19.

#### New Members

Andrew Myers

Aaron Myers

Elliot Myers

Charles Modica

Tom Zimmerman

Nicolas Mak

## Model of the Month

John Behne brought in a Telemaster 40 covered in Solar Tex Powered by a Thunder Tiger 40, complete with flaps. Good job John.

The meeting was adjourned at 8:53 PM.

Respectively submitted by Bill Mares.