

# MAAC'S ZONE B NEWSLETTER.

Take off is optional  
but landing is mandatory.

ISSUE NO.14.

DECEMBER 2012.

## LEAD STORY HEADLINE

Well, it's that time of the year again when St. Nicholas pays us his little visit to attend our windsocks hung up so neatly in the workshop, so when you hear that buzzing sound on the roof, don't peak.

So what does your club have in mind for a get-together for Christmas? Here is a suggestion that has always been popular with our club, and it involves a friendly mass fly with home made gliders at a max span of 12 inches, so have a look on page 3 and get to it.

We also have a new club registered in St.Johns NL. The "Black Sheep R/C Flyers" ID # 778 Contact name is Derek Langdon [dereklangdon@hotmail.com](mailto:dereklangdon@hotmail.com)

[Welcome aboard guys and enjoy the hobby.](#)

We have one event registered for the December month, and that takes place at Shearwater RC Flyers site, see the event page for more details.

### ACE PROGRAM.

We also have a full outline of the new ACE program that was put on the table at the Zone meeting this Fall, and we are introducing it here in our Atlantic Zone News Letter for all to

see. All the details are on page 2, and any input, pro or con, will only improve what we are trying to do, and the purpose is for us all to get to know each other a little better by increasing our attendance at various events around the zone, and that can only improve our hobby. A lot of time and effort have been put into this by Jim Lloyd and Andrew Colwell of SJMFclub.

Page 4 have a few pictures from HEFA's 2013 first get together for this winter season by Al Eastman, page 5 has a super article on tail volume that is good for reference, and on the last page I have a little write up of my Piper drawn by Vic Ruzgy. And here is some web sites for you to enjoy.

For those with an interest in WW II A/C. This is an excellent collection of photos. Note there are 6 pages so take your time and enjoy.

<http://www.mission4today.com/index.php?name=ForumsPro&file=viewtopic&t=14429>

*And here is a Military site with lots of pictures.*

<http://www.thefewgoodmen.com/>

*Also on the Hobby Shop page, we have another entry in Edmundston, N.B., but we lost one in Saint John.*

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### NEW TOOL FOR THE ZONE.



Andrew's pilot meeting. Great support, more pictures in next NL.

### A COUPLE OF PICTURES FROM SAINT JOHN'S INDOOR FUN FLY.



Check out that body language, he made it trough the circle, and got a medal too.



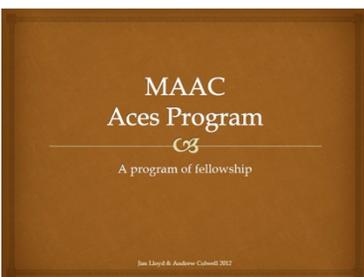
## ZONE B NEWSLETTER

### ZONE NEWS, THE ACE PROGRAM.

Badges, crest, and emblems have long been a part of the air force and the civilian air industry here in Canada, they are symbols of a unit's pride and serve to reinforce a sense of commitment and camaraderie among the units members, so why not have something for our Modeling community that Jim and Andrew proposed at the annual zone meeting:



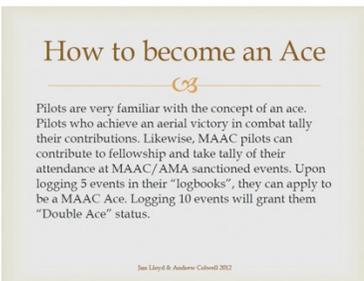
The Saint John Model Flying Club presented at the Atlantic Zone General Meeting a possible new program that may encourage and support fellowship amongst pilots of different clubs across Canada. It was agreed on to start it here in the Atlantic Zone as a test, a complete proposal was sent to the President Rod Dodd, and the Chairman of the PR Committee Roy Rymer.



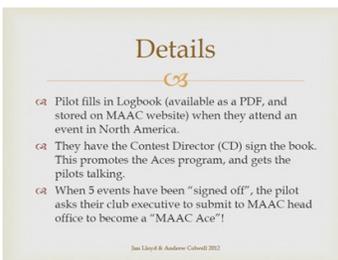
contributions. Likewise, MAAC pilots can contribute to fellowship and take tally of their attendance at MAAC sanctioned events. Upon logging 5 events in their "logbooks", they can apply to be a MAAC Ace. Logging 10 events will grant them "Double Ace" status.



We envisage the program to run as follows. The pilot would download from the MAAC site a copy of the logbook. As they attend the events, they would have the Contest Director sign-off on the logbook. After attending five events, the pilot would submit their logbook to their club's executive. The executive would then request from MAAC head office a MAAC Ace Program package. The package would include a congratulatory certificate, 5 vinyl adhesive



decal (a couple of sizes to match existing MAAC decals) to attach to planes, flight box, etc., and possibly an embroidered patch to be available through MAAC. The submitting club will provide the cover costs of the package. Additional items are potentially available for purchase through the normal MAAC means of providing such paraphernalia such as T-Shirts, hats, pins, etc. as the PR committee may see fit. You may also see a sample ace playing card, the suggestion here is that a pack of playing cards with an additional 5 Ace of Spades with the pilots name printed would be used to trade at events. (Also to provide entertainment during foul weather). The program can be extended to a "Double Ace" by attending 10 events. It really is not meant to become any more complicated.



The idea has been presented to a number of pilots from various clubs with only positive comments to proceed. We hope that you will take a moment to consider this new program, and it all started here in the Atlantic Zone. This program is meant to be a means to help foster the community of pilots. If any clarification is needed, please do not hesitate to contact us at:



Jim Lloyd (#41556L) [sllloyd@nbnet.nb.ca](mailto:sllloyd@nbnet.nb.ca) 506 847-5066  
Andrew Colwell (#31699) [andrew.colwell1@gmail.com](mailto:andrew.colwell1@gmail.com) 506 847-7457.



Down-load the program and the log book at : [www.sjmfc.com](http://www.sjmfc.com)

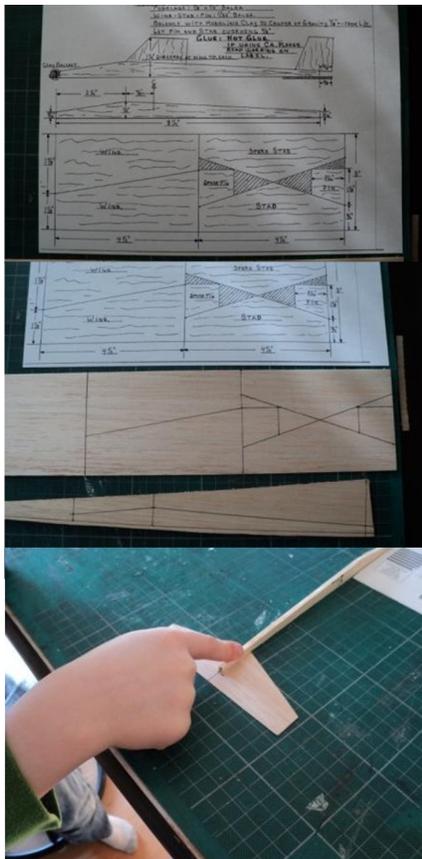
It will also be available for down-load at the Atlantic zone documents on MAAC's website.

## ZONE B NEWSLETTER

### CHRISTMAS PARTY GLIDER FUN BY CATO.

Here is a little glider that will give you lots of fun for the whole family, so gather your kids, grand-kids, young and not so young, and get started. First is the drawing, and it's simple, was modified some time ago and it is a fine flyer that you all will enjoy. Then find some balsa scrap or what ever for the stab, rudder and wings; the best is 1/32 inch balsa, but 1/16 inch can be used with a little less performance, also some medium to hard 1/8 inch balsa for the fuse, and we also need a Hot-Glue, Glue-gun, best when kids are around, you could use CA but not recommended due to the fumes. So here we are all set to do some cutting. Draw the pattern on the balsa and cut it out, you will have a spare rudder and stab for repairs. Heat up your Glue-gun and get your helpers to colour the wings, fuse, rudder and stab with their favourite design, mark the back of the stab and rudder 3/8 inch from the back to where the fuse will stop, this is so you can have some adjustment for trimming.

Now glue the stab to the bottom of the fuse, and the rudder to the top. Get one of your helpers to hold the fuse on to the table top so you will have both hands free for the gluing of the wings to the fuse, here you can do what ever you find the easiest, put glue on and put the two wing halves on, or one of the wings at the time. When you have this done, hold your wings at a slight dihedral at about 1 3/8 Inch from the top of the building board until the



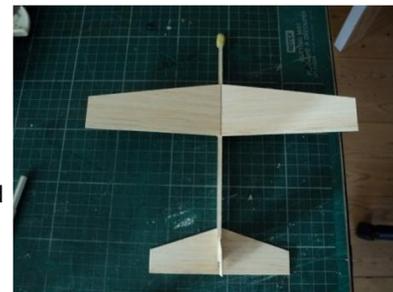
glue set.

Then turn the model over and give a slight bead of glue on both sides of the wings for extra strength, you might have to hold the wings again as the heat from the glue will soften up the top layer of glue again.

Now take your knife and make a slight hole at roughly 1/4 Inch back from front, then soften some modeling clay and squeeze it onto the tip squeezing some into the hole you just made, this is to hold the clay a little better, "Jim's cool idea".

How much ballast? The plane should ballast around the middle of the wing, when you have a nice flat glide with a gentle toss, you are getting close, and are ready for a real try; in the gym or outside on a windless day, tilt the plane at a 45 degree away from you, and at an 70-75 degree angle up and give it a good toss, if your ballast is spot on, it should do a nice loop at the top and settle down for a long slow descent back to the ground. If you try this on a warm sunny day over some dark surface, you might see your creation go up to visit the old Hung, I lost mine ones watching it circle up and away to never be seen again, that is what you would call a thermo, great feeling.

So there you go, build a bunch and take to the Party and pass them out, don't forget to give one to your better half, you never know, she might understand why we are so possessed with our hobby, and then have a fly off, great fun for everybody.



# ZONE B NEWSLETTER

## AL'S CONTRIBUTION FROM HEFA'S FIRST 2013 INDOOR MEET.

*This insert was sent to me by Al Eastman, a great photographer and a regular contributor to this News Letter, thanks Al.:*

The Halifax Electric Flyers Association or HEFA is a very active electric only club with 55 members flying at two sites, one at Shannon park in Dartmouth and the second at a private airstrip in Porters Lake just outside the city. Not only is the club active all winter at the Shannon site, but they also run a winter indoor. Saturday, November 11th the club met for it's first indoor this season at the Prospect Road Community Center on the outskirts of Halifax.



Long time modeller John O'Sullivan (right) joins Peter Flemming and father and son team of John and Brian Walker at HEFA's first indoor of the season. The four are flying the very popular ember 2 micros.



Well known Halifax area flyer Al Coolen discusses the intricacies of flying the micro Sukhoi with owner John Walker. HEFA member Tom Beanham look on.



Al flew an impressive demo with the little Sukhoi which has a well deserved reputation of being difficult to fly.



Bill Foster launches his little diddle-bug, an all balsa built up indoor model. Bill is getting it trimmed out and it is proving to be an excellent flying model.



*Bill and John probably talking about the good old times models.*

*And always time for some chit chat.*



## CALCULATING TAIL VOLUME.

**Calculating Tail Volume**

From A.A. Lidberg Model Plan Service: [www.aalmps.com](http://www.aalmps.com)

The Tail Volume Coefficient (TVo) is a very handy tool for understanding why a model acts like it does, and for determining what can be done to help it act more like what is desired. TVo will help decide just how big the stabilizer should be and provide a starting point for the Center of Gravity location. Here's the formula:

**Tail Volume** = (Tail Area/Wing Area} x (Tail Arm/Wing Avg. Chord)

where:

**Tail Area** = area of the horizontal stabilizer.

**Wing Area** = area of the wing.

[both areas include that encased by or covered by the fuselage]

**Tail Arm** = distance from LE of wing to LE of stab.

[for untapered surfaces; for tapered, use LEs at average chord]

**Wing Avg. Chord** = area/wing span.

Looking at the formula, one can see [other parts being the same] that a larger tail area and/or a longer tail arm will produce a larger tail volume. Here are some sample TVo numbers:

**AMA gas models 1.0 to 2.0**

**Mulvihill rubber 1.5 to 2.2**

**Wakefield rubber 1.4 to 1.7**

**Indoor rubber duration 1.0 to 1.5**

**Hand launched glider .6 to 1.1**

**Full size 1913 Moraine-Saulnier, Type 'L' .16**

OK, so what do we do with the TVo number?

We can find a good starting point for the center of gravity location using this formula:

CG [in % back from the wing's LE] = 16 + (36 x Tail Volume).

An example: if Tail Volume is .50, then CG is:

$$16 + 36 \times .5 = 34\%$$

In practice, one should experiment around this recommended number, to see if duration could be improved.

This CG calculation is really handy for those old timer gas models that have no balance point marked on the plans! What else does this mean? In general, a forward CG such as the typical '1/3 back' or the 36% noted above, means that the wing will need to be at a higher angle of attack—and a powered model will, because of that greater angle, require more down-thrust. Both of these factors contribute to a model that could be considered less efficient, but, if it's a scale model, you don't have much latitude for changes. You do, at least have the balance point at a near-optimum location for that design.

For a model that you're designing [or a scale model that you're working on], checking out the TVo is a good idea, so you can tune the design for more efficiency. You can adjust the tail arm length and/or the tail area to get a greater TVo. Do you remember some of the post-WWII gas models like the Civy Boy that had a balance point at or beyond the wing's TE? When you look at such a model, you see a large

stab plus a long tail arm—thus a large TVo. You will also see the wing and stab incidence at/near zero/zero. Now, that rearward CG is interesting, but the zero/zero makes climb adjusting a scary proposition, even though the glide can benefit from that set-up. It's been said that when the Civy Boy works, it's really hard to beat—but when it doesn't, the impacts will scare everyone!

So—give TVo a try—see how it works!

Portions of this page have been taken from William F. McCombs "Making Scale Model Airplanes Fly." See ads in Flying Models and the NFFS Digest for information on how to buy this book—which has many very helpful ideas for competition models as well as scale models.

This information was taken from SCALE STAFFELS NEWS LETTER IN SAN DIEGO.

*This info also good for our foamy's, so keep it handy.*

## ZONE B NEWSLETTER

### HOBBY SHOPS IN OUR ZONE.

#### NEW BRUNSWICK

##### **WAVETECH R/C HOBBY SHOP**

556 Champlain St, Dieppe, New Brunswick. E1A 1P4.

506-855-7285

<http://www.wavetechrc.com/>

##### **Eastern Helicopters,**

100 Bosse Ave, Edmundston N.B Canada E3V 4A2  
PH: (506)-737-8700

Fax (506)-737-8701

Email:

[Info@VarioCanada.com](mailto:Info@VarioCanada.com)

#### NOVA SCOTIA

Maritime Hobbies and Craft

[www.maritimehobbies.com](http://www.maritimehobbies.com)  
1521 Grafton St. Halifax,  
Nova Scotia, B3J 2B9  
902-423-8870

R/C Wings & Wheels

[www.rcwings.com](http://www.rcwings.com)  
490 Rte. 325  
Blockhouse, Nova Scotia  
902-624-9519

Mighty Small Cars

552 Windmill Road  
Dartmouth, NS  
902 423-9298  
Owner is Geoff Davis.

#### NEWFOUNDLAND AND LABRADOR

##### **Signal Hobbies.**

[www.signalhobbies.com](http://www.signalhobbies.com)

36 Pearson, St. John's, NL  
A1A 3R1

709-722-7021

#### PRINCE EDWARD ISLAND

##### **Great Hobbies.**

[www.greathobbies.com](http://www.greathobbies.com)

Stratford, Prince Edward  
Island.

902-569-5373.

1-800-839-3262.

### SANCTIONED AND OR PLANNED EVENTS IN THE ZONE.

#### **First Annual Rocket Extravaganza.**

December 08, 2012.  
Start time: 0800 (AM)  
No entry fee.

**Shearwater RC Flyers** will be holding their First Annual Rocket Extravaganza, 8 Dec (9 Dec alternate if required), at the Shearwater RC Club field. We have a massive area ideal for all model aviation events, and would like to invite all MAAC/AMA members to attend. There will be prizes, and Maritime Hobbies is co-sponsoring the event, and providing the prizes, as well as discounts for any rocket supplies purchased for the event. Please let us know if you're planning to attend, we'll try to supply enough hot chocolate, and chilli, to keep everyone warm!

<http://www.shearwaterflyers.proboards.com>

for info on the event, location, etc, or contact Maritime Hobbies, Halifax, John or Gregh Hatt, for details.

#### **A teacher's story about Stuttering**

A teacher is explaining biology to her 4th grade students. "Human beings are the only animals that stutter," she says. A little girl raises her hand. 'I had a kitty-cat who stuttered.' The teacher, knowing how precious some of these stories could become, asked the girl to describe the incident. "Well," she began, 'I was in the back yard with my kitty and the Rottweiler that lives next door got a running start and before we knew it, he jumped over the fence into our yard!' 'That must've been scary,' said the teacher. 'It sure was,' said the little girl. 'My kitty raised her back, went "Ffffff!, Ffffff!, Ffffff," but before she could say 'F\*\*k-off !,' the Rottweiler ate her!

The teacher had to leave the room.



## MAAC'S ZONE B NEWSLETTER.

### FROM OUR ZONE DIRECTOR.



Hello everyone, we are coming to the end of another successful year in our zone, and we are now at 30 clubs. I hope you all had a great time, and that your club is successful in obtaining a site to do some indoor flying this winter season.

Lots of reasonable electrical equipment out there now, so fly safe and maintain your batteries with care, and don't leave them on the charger unattended. So now we have come to this time of the year where we all agree on one thing, and that is if Santa is going to bring us anything, we have to dig a little deeper. I would then like to wish you and yours a Merry Christmas and a prosperous New Year.



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### BACK PAGE STORY.

Here is my latest creation, from the plan of Vic Ruzgys 1/12 Semi Scale Piper L4 Grasshopper with 36 Inch Wing span, 23 Inch Fuse all made with Dollar Store White Foam board. Vic's model came in at 120 grams, but mine thundered in at 152 grams, the paint added another 22 grams for a total of 174 gram. The paint I used was an Acrylics Craft Primer and finished with Acrylic Craft Paint. Brush-less motor; 9 gram. 6 A controller. Ultra light receiver. 250 mAh battery and 2 micro servos.



The plan was in the May, 2012 News Letter on page 4, if you don't have that, just e-mail me, and I'll send it on. Vic is a member of the HEFA club in Halifax, and I'm sure he also would pass it on if you asked.

**Update:** Maiden last night at SJHigh, and due to the extra weight of the paint job, I had to add another 18 grams to the nose, plus increase the down trust to 10 degree, then it was a joy to fly with an 6-5 prop that Andrew gave me. All in all a great design, but if you are building it, keep the paint off or go lightly, so thanks again Vic for your contribution to the Hobby.

*I normally don't like to promote any thing, but if its good, it deserves to be known, if you have a chance to get the British R/C Model Aeroplane Special Autumn 2012 Edition, that's the one with a picture of the AT-6 Harvard on the front, it's also have the Drawing of the AT-6 Harvard at 66 Inches Wing span on the center insert. It has a number of great articles and one of particular interest is the one on page 16 called "UP-AND-AWAY", as it gives one of the best explanations on model airplane TAKE-OFF that I have ever seen.*

**PEACE ON EARTH AND A MERRY CHRISTMAS AND A HAPPY NEW YEAR TO YOU ALL.**

