



# MAAC'S ZONE B NEWSLETTER.

ISSUE NO.37, NOVEMBER, 2014.

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Here are the guys that attended the AZM in Truro on October 25, draft copy of the minutes is on page 2-3-4 and 5.

# HI

This is your News Letter and the purpose is to serve the zone and keep all the clubs in touch with each other, so please help in submitting something from your club for us all to share. Don't forget this is your way to inform the Zone what is going on in your neck of the woods, please let me know at : [chansen@nbnet.nb.ca](mailto:chansen@nbnet.nb.ca)



New member of the Truro Club; Patricia Sowinski. More on page 8.



Mast club president Jim Sutherland, right, checks out Bill Grundy's new Eflite UMX Spacewalker. More on page 9.



Here is Bob Aberle holding his Thermix-13 PF. Construction article starting on page 6 and 7. This is something new we are going to start for the winter months, I have got the blessing from Roland Friestad the editor of RCMW-FSP an online magazine that has been in circulation for years, and can be found at: [www.fullsizeplans.com](http://www.fullsizeplans.com) to use whatever I like.

**DRAFT COPY OF THE 2014 ATLANTIC ZONE MEETING HELD IN TRURO, N.S.**

October 25, 2014.

Model Aeronautics Association of Canada,  
Atlantic (B) Annual Zone Meeting Minutes October 25, 2014.  
Immaculate Conception Church,  
699 Prince Street, Truro N.S.

**Meeting called to order:**

Meeting called to order by Regis Landry at 14:12.

**Present:**

Zone Director Regis Landry.  
Deputy Zone Director Cato Hansen.  
Assisting Zone Director Sandy McInnis  
Eight (8) Members.  
Forty (40) Proxies.  
For a total of Fifty one (51).

Quorum Needed: Twenty-seven (27).

**Approval of Agenda:**

The Agenda was Approved and  
Moved by Bob Kennedy 75764  
Second by Andrew Colwell 31699  
**Action:** Carried.

**Opening Remarks:**

Regis Landry then welcomed all members to the meeting and then advised that a Quorum had been reached and the meeting could be continued.

He then introduced the DZD Cato Hansen and AZD Sandy McInnis.

He then asked the members to identify them-self.

**Club Reports:**

Club report was read by Tommy Wilson representing Riverside Modelling Association on their successful Hillsborough Days Fun fly with record turn out, and also that discussion has been in progress with The Greater Moncton Aeromodelers on their Winter Fun Fly at the Moncton Coliseum to have it changed back to the original date in early January first of February. Andrew Colwell representing Saint John Model Flying Club did report on their Float Fly and Bob Kennedy also of SJMFC reported on their Fun Fly they had this Fall with great success. Sandy McInnis reported on the Aerobatic flying this season that was well attended by the pilots in the Zone, and it's holding its own.

**Approval of the Minutes AZM in Hillsborough 2013:**

Moved by Sandy McInnis 10790,  
Second by Bob Kennedy 75764,  
**Action:** Carried.

**Zone Director Report:**

The ZD reported on his travel around the Zone, and started with the Moncton Winter Fun Fly at the Coliseum, then out of the Province to attend the AGM in Quebec City. Down to Margaree Fun Fly in Cape Breton which is always a great place to fly for all the members with a full size Runway and some members come as early as a week before the event, sadly the event did see some rain in the early Saturday afternoon to end the event for another year. Then on to the War Bird Event that the Truro Club hosted, which the ZD sponsored, a great success with a 100% increase in attendance this year. Then he travelled to Windsor for their Annual Event which was another success. That same weekend the Yarmouth Club; the South West Flyers, named their new Field after long time modeler Roland Bourque. Amongst other events in the zone he also attended the Annual Fun Fly in Edmundston hosted by **LES AILES DU MADAWASKA**, and down to Wings of Wellington for their annual October Fest Fun fly. All in all a

**DRAFT COPY OF THE 2014 ATLANTIC ZONE MEETING HELD IN TRURO, N.S.**

great season for the Zone, with the Club Events reporting high attendance all through the Zone. We also lost some members for what ever reason, and the member total for the Zone is standing at 569.

**Committee Reports:**

Andrew Colwell reported on the Electric Aircraft committee that he was contacted by the Committee Chair, but that was all he heard rest of the season, so therefore no report.

AZD Sandy McInnis reported on the Aerobatic Events and happenings in the Zone. He reported that some members could not attend this year due to work schedules, but we did pick up a few more to offset the loss, a good season was had with lots of flying, and it looks like the next season for 2015 is gearing up to be another success. Paul Phillips reported from the Safety Committee about some of the changes that Transport Canada was looking into.

Cato Hansen reported on the Sailplane Committee that the Committee Chair had contacted the Committee members, and a tele-conference call was had with lots of different ideas kicked around how to attract more members into the sport, he also reported on a News Letter that was made up to cover all the happening around the sailplane community in the 2013 year made by **Dick Colley**, and another one is in the works for this year, and there is possibly one report in that coming from our Zone.

**New Business:**

The ZD announced the War Bird Event will be in Truro again in 2015 and the date will be Canada Day Week-end. Andrew Colwell question the ZD on the formula that MAAC is using to determine how much money is allocated to each zone, the ZD responded with the formula and information. Bill Grundy from the Truro Club also had his concern aired regarding all those new flyers that is popping up all around us with no intention to sign up for the MAAC or Club as they can buy anything they have money for and fly anywhere they like, and there is nothing we can do about it, he would like MAAC Board of Directors to press on to Transport Canada for some kind of solution.

**Recommendations:**

MAAC Policy Manual-April 27, 2014.

7.0 MAAC Zones.

7.11 National Organization Zones.

Be it recommended to increase the number of Zones from 13 to 14 to permit equitable representation in terms of area, and allow unique geographical areas to promote and encourage the hobby as per the members in each geographical area deem appropriate.

Rationale:

The Atlantic Zone includes 4 Provinces with a total area of approximately 539 336 Square Kilometres, of which Newfoundland and Labrador covers approximately 405 212 Square Kilometres. The members of Newfoundland and Labrador are not getting equitable representation due to the vast area in the Atlantic Region, and the membership in Newfoundland and Labrador is declining. Consistent travel and communications between the Maritime Provinces and Newfoundland and Labrador is both geographically and economically unfeasible. The two areas remain distinctly apart from each other. Newfoundland and Labrador would highly benefit from having their own local representative provide all of the duties required of a Zone Director who can represent the MAAC issues unique to Newfoundland and Labrador, while permitting the Maritime Provinces to continue with their current representation.

**Action:**

Members for: 49.

Members against: 2.

Carried.

**Nomination for Deputy Zone Director:**

There was one Nomination for Deputy Zone Director, Cato Hansen.

Signed by: Jeremy Dann.

Second by: Al Eastman.

Being no other nominations,

Cato Hansen was re-elect as Deputy Zone Director by acclamation.

**Action:** Carried.

**DRAFT COPY OF THE 2014 ATLANTIC ZONE MEETING HELD IN TRURO, N.S.****Nominations for Committee Chairman or Committee Members:**

**UAV:** Calvin Martini, 40498. Committee Member.

**FPV:** Calvin Martini, 40498. Committee Member.

**Free Flight Indoors:** Tommy Wilson 29501. Committee Member.

**R/C Helicopter:** Colin Bell 61634.  
Jeremy Dann 33404. Committee Members.

**R/C Indoor:** Sandy McInnis 10790. Committee Member.

**R/C Float Planes:** Cato Hansen, 61451L. Committee Member.

**R/C Electric Aircraft:** Andrew Colwell, 31699. Committee Member.

**R/C Sailplane:** Cato Hansen, 61451L. Committee Member.

**R/C Scale Aerobatic:** Chris Garrett, 72050. Committee Member.

**Constitution:** Bob Kennedy 75764,  
Jim Lloyd 41566. Committee Members.

**Safety:** Paul Phillips, 28438L.  
Tommy Wilson 29501. Committee Members.

**R/C Jet:** Mark Ramsay, 50437.  
Joseph A Coolen, 45859. Committee Members.

**Space Modelling:** Greg Hatt, 45894. Committee Member.

**Nominations for Leader Members:**

James Gavel 27988.  
Thomas Wilson 29501.  
Colin Bell 61634.  
Roland Bourque 28029.  
Mark Ramsay 50437.  
Wayne Cavanaugh 24232.  
Dale Smith 8738.

Moved by: Bob Kennedy 75764,  
Second by: Andrew Colwell 31699.

**Action:** Carried.

**Conduct any other Business that may properly come before or after the meeting but is not on the Agenda:**

A Question was made to what happen to the Ace Program, the ZD was requested to bring the item to the Chair person for the PR Committee. A great discussion was had why there seem to be no interest in anybody attending the Zone meetings, and it seems the overall opinion was that what ever is being put forward by our Zone, the Board of Directors chooses to ignore and never gives any feedback to why anything is rejected, we the members demand to have our opinion heard and the BOD should respond to this request through our ZD. The BOD has a mandate to be responsible for the members and act on their behalf and not in anybody else interest.

**DRAFT COPY OF THE 2014 ATLANTIC ZONE MEETING HELD IN TRURO, N.S.**

**Set Future venues for AZM 2014:**

It was brought up that maybe we should use the technology available to us and have the Zone meeting set up as a video teleconference from different places in the Zone so more members could attend without driving 7-8 hours to attend at a great cost to the member. The ZD is going to look into the action.

**Adjournment:**

There being no further business, the ZD declared the meeting adjourned at 16:35.

Respectfully submitted,

Approved by:

Cato Hansen, \_\_\_\_\_

Regis Landry, \_\_\_\_\_

Deputy Zone Director.

Zone Director

**THERMIX-13 PF CONSTRUCTION BY BOB ABERLE AND COPIED FROM RCMW-FSP WITH PROMISSION FROM ROLAND FRIESTAD.**

*If you like to have a look at Roland's publication go to his website at: [www.fullsizeplans.com](http://www.fullsizeplans.com)*

**BACKGROUND.**

I can be inspired in many ways when it comes to selecting a new design project, which will eventually lead to a published construction article. In this particular case a recently published design, provided that inspiration. In the August 2014 issue of MODEL AVIATION (the AMA's magazine) noted designer/author, and member of the AMA Hall of Fame, Dick Sarpolus, published a large electric powered sailplane, which he called the "THERMIX-13". This is a photo of Dick

holding his new design.



I'm sure one look at this photo and you will recognize the Frank Zaic THERMIC-100 influence. Specifically the wing tip panels have more of a chord, than the center panels. Many of the original Zaic designs had this characteristic wing tip configuration. You will also realize when looking at this photo that Dick built a very large sailplane. The wing span is 102 inches and the wing area around 900 square inches. Total weight of this plane, with an electric motor and Li-Poly battery pack, was 64 ounces. Just to make this design a little different, Dick chose a pod and boom fuselage. So the final design was derived from the old THERMIC-100. Since Dick chose a slightly different approach, he named his plane THERMIX-13. That's an "X" on the end instead of a "C". The "13" was the year Dick completed his new design (2013). I really wanted to build Dick's plane, but it is way too large for a per-

son like me who is more usually associated with micro or small size aircraft. We have been running park flyer models in RC MICRO WORLD several times a year. These planes have run upwards of 15 ounces and wing areas up to 300 square inches.



With the help of my friend, Chris Moes, up in Canada, a reduced size set of

Dick's plans was run for my purpose. This Park Flyer version has a span of 54 inches, a wing area of 275 square-inches and, if you can believe, ended up with a final weight of only 9.7

ounces. Here is a photo of me holding my THERMIX-13 PF (PF for Park-Flyer). Now you know how really small it is! Throughout my building of the THERMIX-13PF I corresponded with Dick Sarpolus. We exchanged many e-mails. The one thought that was on our minds is to try to get modelers to build once again. It seems everyone is buying ARF and RTF models. Many haven't cut balsa wood in years. This is so prevalent today that construction articles are now hard to find. But with that thought in mind, Dick and I have given you two building possibilities. One is big and the other small.



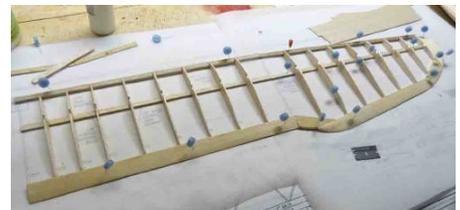
**CONTRUCTION NOTES:**

I started construction with the wing. As you can see, there are many parts. Building this plane was essentially easy. But the number of parts might scare some modelers away. I'm hoping

that one of the RC kit manufacturers, with laser cutting capability, might produce a full kit or even a short kit consisting of the ribs and formers. This is what the wing parts looked like before assembly.

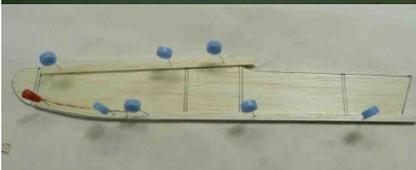
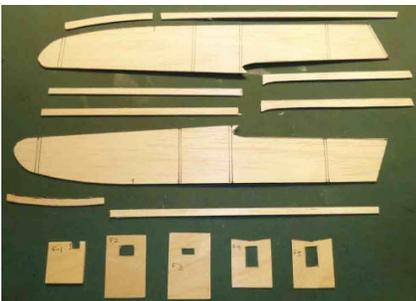


I stripped all the necessary balsa from sheet stock. The leading edge and the main spars were medium to hard balsa. Conventional trailing edge stock was used on the center wing panels. The tip panels used 3/16 inch medium balsa for the trailing edge and 1/8 balsa for the tips. No balsa webbing was employed between the two spars. The wing panels were joined with 1/32 ply braces. You will note that this design has very little dihedral and polyhedral. That's the way the Thermic designs were, and it works well in flight.



**THERMIX-13 PF CONSTRUCTION BY BOB ABERLE AND COPIED FROM RCMW-FSP WITH PROMISSION FROM ROLAND FRIESTAD.**

Next I worked on the fuselage, which is a pod and boom type structure. The pod sides are 1/16 inch balsa sheet. Balsa doublers made from 1/16 X 1/4 balsa strengthens the pod fuselage sides. All the formers were made from 1/32 plywood. The firewall was 1/8 ply. Make sure that clearance holes are made as necessary for the passage of cables.



Although Dick Sarpolus used plywood on his boom, I decided that balsa was good enough. The boom sides are made from 1/16 X 5/8 inch hard balsa. The top and bottom was 1/8 X 3/8 inch hard balsa. This was easy to do

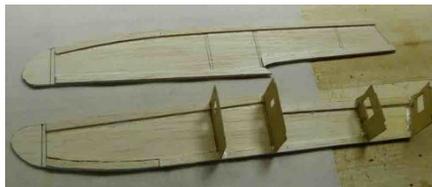


and ended up plenty strong.



These are the pod and boom parts ready for final assembly.

In this photo I am holding the boom so that you can see the cross section of the shape.



The formers and sides of the pod are being added.



The next few photos shows how the removable wing is set up. There is



3/16 inch hardwood dowel at the leading edge, that is cemented to the lower part of the wing. That dowel penetrates into a hole cut in the ply former at the leading edge of the wing. At the trailing

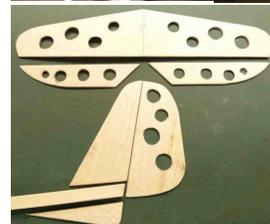


edge a single 1/4-20 nylon bolt holds the wing tightly in place.

Here is a sequence of three photos that clearly show the dowel and bolt wing



hold down scheme.



All the tail pieces were cut from 1/8 inch medium balsa sheet.

This was

plenty strong and did not require any stiffeners. I cut lightening holes in some of the surfaces. My initial intent was to save weight, but in the end my plane turned out light in weight and tended to be nose heavy. So you may not want to bother with these lightening holes.

You will notice that here the E-Flite PARK-300



brushless outrunner motor is bolted to the firewall, F-1. A prop saver was used.

The basic structure awaiting covering. I kind of pin everything together to determine how the final CG location will work out.

[Next month we will cover the Power and Control System, or you can go to](#)



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

[If you like to get a jump on it.](#)

THE MINIATURE AIRCRAFT SOCIETY OF TRURO

TEXT AND PHOTOS BY BILL GRUNDY.



The Miniature Aircraft Society of Truro is pleased to add Patricia Sowinski to the pilot roster.



The annual Willy Hamilton Memorial Corn Boil, a family event, took place in mid-September and was well attended.



A chili day, complete with authentic looking Mexicans, was held in early October. Does MAAC have a reciprocal agreement with Mexico?



We would also like to announce that Indoor flying activities has started in the Princess Margaret Rose gym, so come on down we would love to see you there.

A WINTER PROGRAM INFORMATION AROUND N.S.

TEXT AND PHOTOS BY AL EASTMAN.

This winter the indoor season In Nova Scotia is once again looking to be a busy one. The MAST club of Truro <http://www.mast-rc.ca/> was the first to kick off this fall on October 8th with a weekly indoor on Wednesday nights at the Princess Margaret Rose School. Also well into their regular indoor season are the group from the Annapolis Valley. Barry Lloyd of the Wings of Wellington club (<http://www.wingsofwellington.org/>) writes " I recently spoke with Dwight MacLeod, Executive Director of the Valley Sports & Multipurpose Facility and he is once again pleased to schedule time for weekly Indoor Flying sessions. Both fixed and rotary wing models are welcome. First session is set for this coming Wednesday, October 8th, with weekday, time and cost the same as last year, Wednesdays from 1:00 - 4:00 pm at \$10.00 per person per session flat rate. Total flying space is approximately 220'L x 110'D x 30'H, part of which is dedicated to helicopters. Red pylons will be placed on the floor to mark that area. Heli flyers are asked to limit models to no larger than the "250 class size". The area designated for fixed wing flying is open for general indoor flying. cheers,-- Barry" ASRCM (<http://www.asrcm.ns.ca/>) followed the next week starting their weekly indoor on Friday nights at yet another new location, the Riverside Elementary School in Milford. The resurfacing of the gymnasium in our old haunt East Hants Rural High is still an issue resulting in the new Riverside spot and scheduling conflicts there will also mean a change to Tuesday nights in January. Luckily we have an insider advantage with member Shawn Maloney, a student counsellor at East Hants

who has been doing a big chicken dance in organizing our events for us the past few seasons. Indoor flying for the Northumberland RC Modelers (<http://www.sinnis.ca/nrcm/joomla/>) kicked off on October 20th and will run through until next May. This group also has an awesome large facility at the Nova Scotia Community College in Stellarton, NS and the longest per night session charging only \$10.00 for the four hour sessions. Halifax Electric Flyers Association (<http://www.halifaxelectricflyers.com/Forums/index.php>) member Vic Rugsys has booked space in a new facility in Porter's Lake just outside Dartmouth and has extended an invitation to all flyers to participate in their first meet on Saturday, November 22nd from 11:30 to 2 pm. Vic says "This is our first time in this place, but it is a nice new facility with quite a bit of room (double gym) and a high ceiling, so I think everyone will be quite happy with it." He is looking into booking other sessions, possibly in December and in the new year. ASRCM member Shawn Maloney hovers his Crack Lazer during the club's first indoor night October 17th. Shawn, a student counsellor at our local high school has been organizing ASRCM's indoors in various locations for several years.



Joe Miller puts his Crack Lazer through its paces while Jon Eastman's waits a turn. These two gentlemen are generally seen flying up a storm together at the ASRCM indoor events. Club member Darren Monk is in the background.



Participants on opening night are shown readying their planes along the flight line. Left to right are Joe Miller, Daren Monk, Julian Parkinson and Shawn Maloney.



Shawn is almost as prolific an indoor flyer as myself often visiting other venues. Shown here in Truro he demonstrates his mobius equipped 200QX for Truro club member Andy Gruz.



Truro's MAST club is getting good turnouts on their indoor nights. Here club member Mike Bates flies his profile extra.

**HOBBY SHOPS IN OUR ZONE.**

NEW BRUNSWICK	NOVA SCOTIA	NEWFOUNDLAND AND LABRADOR	PRINCE EDWARD ISLAND
<p><b>WAVETECH R/C HOBBY SHOP</b>                      556 Champlain St, Dieppe, New Brunswick. E1A 1P4.                      506-855-7285  <a href="http://www.wavetechrc.com/">http://www.wavetechrc.com/</a></p>	<p><b>Maritime Hobbies and Craft</b>  <a href="http://www.maritimehobbies.com">www.maritimehobbies.com</a>                      1521 Grafton St. Halifax, Nova Scotia, B3J 2B9                      902-423-8870</p>	<p><b>Signal Hobbies.</b>  <a href="http://www.signalhobbies.com">www.signalhobbies.com</a>                      36 Pearson, St. John's, NL A1A 3R1                      709-722-7021</p>	<p><b>Great Hobbies.</b>                      171 Buchanan Drive, Charlottetown, PE I. (across from Canadian Tire).  <a href="http://www.greathobbies.com">http://www.greathobbies.com</a>                      902-569-3262                      1-800-839-3262                      The new store is now located in Charlottetown with only administration in the Stratford location.</p>
<p><b>EASTERN HELICOPTERS</b>                      100 Bosse Ave, Edmundston N.B Canada E3V 4A2                      PH: (506)-737-8700                      Fax (506)-737-8701                      Email: <a href="mailto:Info@VarioCanada.com">Info@VarioCanada.com</a></p>	<p><b>R/C Wings &amp; Wheels</b>  <a href="http://www.rcwings.com">www.rcwings.com</a>                      490 Rte. 325 Blockhouse, Nova Scotia                      902-624-9519</p> <p><b>Mighty Small Cars</b>                      552 Windmill Road Dartmouth, NS                      902 423-9298                      Owner is Geoff Davis.</p>		

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

There being no events to list this month, I just have to fill in with some of the pictures from this season.



**WAR BIRDS**  
*over the* ATLANTIC

**3**rd annual War Bird event for the MAAC Atlantic Zone held at the MAST field in Truro NS, on Canada Day week

FROM OUR ZONE DIRECTOR.



Here we are, November already and its bringing the winter weather with some rain and lots of snow mixed with it which means that the summer flying is over and time to get ready for indoor flying and most important; time to build that new aircraft for the 2015 season.

We still had another good flying season this year in general, not too many weekends were missed due to bad weather, even if some weekends didn't look so good, flying was still going on.

Here is just a reminder that now would be a good time get your club registered for the 2015 season so it will be ready for next year when you have an event, it will be ready to go. One club has already registered, well done.

Remember to keep an eye on those batteries when you are charging them. Have a fun winter flying and be safe.

Time to work on that new aircraft.

**ATLANTIC ZONE  
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**BACK PAGE STORY.**

**Here is an engine for you Gas-sers:**

Like many aviation companies, Lycoming is involved in the world of unmanned systems, and as part of that program, it recently unveiled its smallest engine, the EL-005. AVweb recently visited the factory and got a tour of this interesting little engine.

<http://www.avweb.com/videos/Video-The-Littlest-Lycoming-EL-005222817-1.html>

**This is a site that surpass anything that I have seen, enjoy:**

This was started by two brothers as a place to show their hobby, soon they were joined by other 'Model Railroad Clubs' and other craftsmen. Some were electricians, model makers, carpenters, computer programmers. Their wives would stop by to see what they were doing and usually bring them a lunch. One thing led to another. Three of the ladies had worked at a bakery, several visitors would ask if they had a snack bar. The idea was planted; some of the carpenters came and built a nice restaurant area for the bakery and a kitchen, too. If the fresh coffee smell didn't get you, then the bakery definitely would.

Over 400,000 man hours were spent making this dream come true. This was about 5 years ago. One of the breweries came and furnished all of the tables and chairs, serving counter and, etc. Their latest finished area is the airport. Planes look like they are flying and landing. GERMAN WONDERLAND IN HAMBURG link below - AMAZING!

[https://www.youtube.com/embed/ACkmg3Y64\\_s?rel=0](https://www.youtube.com/embed/ACkmg3Y64_s?rel=0)

**And here is a little refresher from Andrew Colwell that we run last year, with a great site at the end.**

First, you need to decide how you want to fly your plane from one of three categories: slow, sport, 3D. Each requires progressively more power. I use 60W, 90W, and 120W per pound as guidelines. I use blue 6mm fan fold foam (from EBS building supplies in Calais, Maine) and ReditBoard (Dollar Store poster board foam with the paper peeled off). I estimate the all up weight of the plane. As an example, I dream up a 3D foamy that should come in at 340g (12oz). I need at least 90W of power. Since LiPo batteries for this size are going to be either 2 or 3 cells (7.4V or 11.1V), I can deter-

mine the current draw. I pick 2 cell LiPo because I have them on hand. Electronic math tells me Power is the product of Voltage and Current. So, the current requirement will be 90W divided by 7.4V which gives 12A. I am now looking at a 12A ESC and motor combination.

Given that I am looking for 3D performance, I will pick a battery with at least 20C rating. LiPo battery charge should be chosen in conjunction with the current draw and 'C' rating. Divide current draw by the 'C' rating, and you get the amp hours or size of the battery (12A/20C=0.6Ah or 600mAh). Now I have the size of the battery pack.

Finally, and this is the trickiest part, I need to select a motor. I need a motor that draws a maximum of 12A. I also want it to be light. I am going to look for slightly higher Kv values. (***Kv refers to RPM per Volt***). In the 12A motor range, you will be looking at 1200Kv to 2000Kv motor. You need to look at the spec sheet. For a 3D plane, I would look for a motor with 1800Kv, drawing 12A with about 8" or 9" propeller.

<http://www.rchelicopterfun.com/rc-lipo-batteries.html>