



Stetson Flyer

Stetson Flyers Model Airplane Club

November 2010

CHEO Project



Richard Robichaud poses with the newly installed flight simulator at CHEO—details on page 6!



At our October Election meeting there was a draw for a Super Stick ARF which was won by Peter Kember (left). Peter immediately put the kit up for auction with the proceeds going to CHEO. Andy Zidar (middle) purchased the plane for \$105 which will go to the CHEO Foundation. President-reelect Dan Marcotte on the right.

Regular Meeting

Tuesday, November 30th

Regular Meeting
7:30 PM

Don't forget your
Bring and Brag!

Prize draw whenever there are 3 or more bring and brag items.

Coming Stetson Events...

November 30 th	Regular Meeting
(no meeting in December)	
January 1 st	First Flight of New Year
January 25 th	Regular Meeting
February 22 nd	Regular Meeting
March 29 th	Regular Meeting
April 26 th	Regular Meeting
May 31 st	Regular Meeting

Your New Executive

...looks exactly like your old executive!

There were no new faces came forward for election or to volunteer for the appointed position.

We will need some new faces on our executive team very soon, as the current executive will not renew forever. Anyone who thinks they would like to help out and would like to attend our executive meetings is more than welcome to—just send us an email. If you like what you see you can be an "Officer at Large". Heck, I am wearing three hats again this year, I would be more than happy to share!

— John Jackson, Secretary/Treasurer/Editor

Our website address: <http://www.stetsonflyers.com>

Club Officials and Contacts

President	Daniel Marcotte 613-299-1970 contact@stetsonflyers.com
Vice-President	Hal MacDonald 613-764-1950 contact@stetsonflyers.com
Secretary	John Jackson 613-445-5726 contact@stetsonflyers.com
Membership	Daniel Marcotte 613-299-1970 contact@stetsonflyers.com
Treasurer	John Jackson 613-445-5726 contact@stetsonflyers.com
Chief Flying Instructor	Simon Nadler 613-883-3367 contact@stetsonflyers.com
Webmaster	Simon Nadler 613-883-3367 webmaster@stetsonflyers.com
Newsletter	John Jackson 613-445-5726 contact@stetsonflyers.com
Events Coordinator	Gary Robertson 613-746-4209 contact@stetsonflyers.com
Field Coordinator	René Lepage & Louise Gélina contact@stetsonflyers.com

There is always room to add your name here too!

Mailing Address: *new as of August 2010*

The Stetson Flyers Model Airplane Club
3940 Innes Road
PO Box 91542
Ottawa ON K1W 1K0

Dues:

\$70.00 per calendar year;
\$30.00 for students under 18
\$120.00 for families—two adults plus children

Please visit our web site at

<http://www.stetsonflyers.com>

Our web site is hosted as a community service by



Newsletter Questions and Answers

I used to get emails about club events, but they stopped coming – what happened?

Most likely your email address changed or failed and we were not given a new one. When the electronic version is ready for download we send out a reminder as well as for important events and notices. To get back on our mailing list, send your email address to: contact@stetsonflyers.com

Meetings

The Stetson Flyers meet at 7:30 on the last Tuesday of each month, except for December, June, July or August. The meetings are held at the Canada Aviation Museum in the Bush Theatre.

Bring and Brag

Each meeting we encourage members and guests to bring something of interest to show to the group. It could be a new plane, a build in progress, or a demo of a technique. Where there are three or more items brought to the meeting we will try and have a prize draw. Items for sale are welcome but are not eligible for the Bring and Brag prize draw.

Use the back door to the museum!

To get to the back door follow the road around to the extreme left side of the museum. Pass through the gate in the perimeter fence and proceed to the back door.

Photo Credits:

Unless noted otherwise, photos in this newsletter are by our webmaster Simon Nadler, our newsletter editor John Jackson, or our Vice President Hal MacDonald.

Want to propose something?

Members in good standing can bring motions from the floor at any regular meeting. The motion will need to be seconded, then discussed and voted on by the members present. Sometimes the outcome is that the motion is tabled so more information, implications, etc. can be gathered and presented.

You can help speed up the process by giving the executive a "heads up" by sending an email to contact@stetsonflyers.com, ideally before the executive meeting which happens the Tuesday before a regular meeting. This will allow the executive team a chance to research the idea in advance of the meeting and gather any required

Meeting Minutes

October 26th 2010

The meeting was opened at 7:30 pm with a motion from Paul Pronovost, seconded by Don Glandon. Motion carried. There were 44 members in attendance.

It was pointed out that in the September minutes Gord Fink was recorded as Todd Fink. A motion to accept the minutes as corrected was made by Scott Clarke, seconded by Gerry Nadon. Motion carried.

The treasurer's report was presented. Gerry asked about the grass cutting contract and Dan provided details. A motion to accept the treasurer's report was made by Gerry Nadon, seconded by Dave Martin. Motion carried. The treasurer's report appears elsewhere in this newsletter.

Membership Report – Dan reported the current membership is 133 people. Dan also mention there is a motion to increase MAAC dues for the March MAAC AGM so people might like to renew sooner rather than later.

Webmaster – No Report.

Newsletter – No Report.

Field Report – Dan will put plastic on the BBQ shack to keep the cold out for fall and winter flying. The weather station is turned off and will be removed shortly. The washroom will be cleaned one more time before winter.

CFI Report – We will need more instructors for next year. Richard Dalpe, Gord Fink and Andy Zidar were presented with their Wings Certificates.

Old Business – Todd asked about the status of the deceased member's memorial. Dan replied that the executive have not discussed it recently and will do so and report back at a future meeting.

Dan mentioned that we have \$1410 so far for CHEO donations and RealFlight is being downgraded to a version that does not have planes that can shoot at CHEO's request.

New Business – Elections. Sergeant at Arms was Gerry Nadon. A motion to open the elections was made by Rick Ramalho, seconded by Mike Amodeo. Note: none of the positions were contested.

A motion to nominate Gary Robertson for Events Director was made by Simon Nadler, seconded by Mike Amodeo.

A motion to nominate John Jackson for Treasurer was made by Gary Robertson, seconded by Marc Shaw.

A motion to nominate John Jackson as secretary was made by Todd Caroll, seconded by Don Glandon.

A motion to nominate Hal MacDonald as Vice President was made by Isabelle Hébert, seconded by Rick Ramalho.

A motion to nominate Dan Marcotte for President was made by Gord Fink, seconded by Andy Zidar.

A motion to close the nominations and accept the slate of officers was made by Rick Ramalho, seconded by Don Glandon. Motion carried.

Dan asked the following people if they would continue in their roles as appointed by the executive, and made it clear that if anyone would like to volunteer they should contact the executive.

CFI – Simon Nadler

Webmaster – Simon Nadler

Newsletter – John Jackson

Field Coordinator – Rene Lepage and Louise Gélinas

Safety Officer – Hal MacDonald

Elections closed – Dan thanked Gerry Nadon for his services.

A motion was made by Scott Clarke to remove the pylons from the field as they are perceived as a hazard to planes should someone have a deadstick. [I do not have a record of who seconded this motion]. Todd Carroll suggested posts at either end of the runway would adequately mark the flight line. The motion carried.

Todd Carroll made a motion to move the impound away from the flight line as it is less used and blocks vision of the pilots. The motion was seconded by Don Glandon. During the ensuing discussion Todd suggested moving the frequency board with it for safety reasons. Scott mentioned this must be detailed on our field renewal paperwork so it must be done soon. A motion was made by Scott to have the executive study this and report back for the next meeting.

Scott Clarke commented that he did not feel it was safe to have large scale planes started on the starting tables. Gerry Nadon made a motion to restrict starting on the tables to .60 size planes and smaller. The motion was seconded by Wayne Smith and the motion carried.

Hal MacDonald gave a safety speech and reminded people that the flight line is 7 metres in front of the pilot stations, not the safety fence. Take care when starting planes in the pit area if there is someone standing in front of your plane. Use restraints.

The draw for the ARF purchased from Discount Hobbies as an attendance prize was won by Peter Kember. Peter graciously offered it up for auction with the proceeds going to the CHEO fundraising effort. The plane was purchased by Andy Zidar for \$105— going to CHEO!

The meeting was closed at 8:30 with a motion by Gerry Nadon and seconded by Scott Clarke.

There were no Bring and Brag items, so after coffee the group was treated to a tour of the new hangar by Gerry Nadon.

Treasurer's Report for October

<u>Investment:</u>	
-TD Term Deposit GIC renewed for one year at .50%	\$10,440.47
<u>Bank balance</u>	
- September 28, 2010	\$ 616.75
<u>Expenses:</u>	
- Bank fees	\$ 11.95
- Grass cutting contract (4 payments x \$100) last cut	\$ 400.00
- Field Maintenance items	\$ 135.59
- Purchase of the Super Stick ARF for the raffle at the Election meeting	<u>\$ 113.00</u>
Total expenses	\$ 660.54
<u>Revenue:</u>	
- Hats, 50/50 first flyer event	\$ 336.50
- Membership fees (2 new members)	<u>\$ 70.00</u>
Total revenues	\$ 406.50
<u>Bank Balance:</u>	
- As of October 26, 2010 (Not including our GIC)	\$ 362.71

Protecting Yourself From Hazardous Materials

by Chris Myers
From Notam, Bayou City Flyers, Katy, Texas

If we caught our kids out in the garage sniffing paint or glue, we would send them to counseling. Yet, as adults we do this and call it modeling.

Last year I read an article about a man who was working with acetone in his house. After using it, he almost collapsed. Getting out of the room and lying down, he returned to normal.

When I look at the shelves in my work room, the chemicals stored there range from Balsarite to various spray cans, paint, lacquer, pesticides, etc., to CA to acetone, along with a couple cases of fuel. In addition to this, I use balsa and do a lot of sanding, creating particles to clog my lungs.

In the process of repairing and maintaining our aircraft, our hands come in contact with several hazardous materials. Our body absorbs these chemicals, and consistent exposure to them can be a danger to your health.

If you dissect our hobby, it quickly becomes apparent that we often spill fuel and CA on our hands. We sniff the paint and glue fumes and use grease and oil in our maintenance. It all gets on our hands. If you are an active modeler, you have a lot of exposure to hazardous materials.

Below is a list of a few items you may want to keep around the workshop. They should help minimize the risk of exposure to hazardous materials.

1. Get a fire extinguisher.
2. Go to an auto paint and body shop and pick up a good face mask.
3. Buy a small fan for ventilation. [Tech editor's note: A large fan is recommended. In order to move more air, a small fan must be run at a higher speed and that causes some of its own problems. A large fan running slow moves sufficient air without making other problems.]
4. Work in a room that is properly ventilated.
5. Buy a box of rubber gloves.

Our hobby is great fun, but more than the propeller deserves some serious attention to keep you from being in harm's way.

Fly safe and have fun. Q

More on Soldering

by David McCormick
From the Falling Water Radio Control Flying Club,
Soddy-Daisy, Tennessee

I'd like to expand a bit on the excellent tips offered by Phil Laperriere in the July 2010 edition of the AMA Insider, "Understanding Deans Connectors."

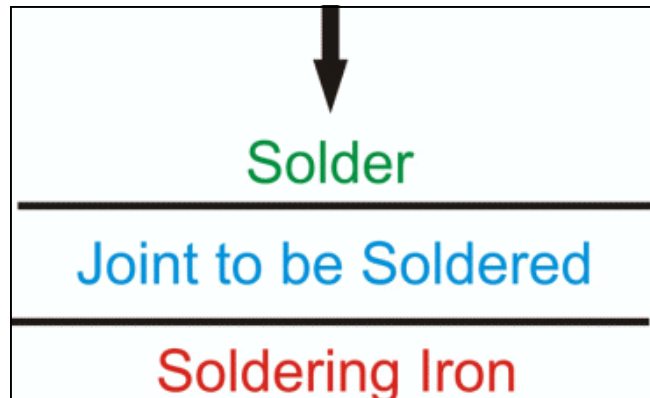
As someone who has been involved in electronics since I was a teenager, I get a lot of requests from the members of my own RC club to help them with the same kinds of soldering issues Phil discussed in his article. The recent boom in the popularity of all-electric airplanes and helicopters, and the ever-increasing size and capacity of the batteries, motors, and speed controllers they use has made what used to be fairly simple tasks very difficult for a lot of modelers. So here are a couple of my own soldering tips.

1. Use a smaller gauge solder. Solder comes in different sizes, just like wire does, and a small gauge solder will melt more quickly and flow much better than a thicker one. I use .032 gauge solder (available at Radio Shack) for all my electronic soldering tasks. It takes much less heat to melt it, which helps reduce the damage excess heat can cause to terminals, connectors, and insulation. And the smaller gauge solder has a greater percentage of flux, compared to a larger diameter solder, which helps it stick better to the joints. You'll be amazed at how much easier it is to use.

2. Get yourself a flux pen, also available at Radio Shack, or from any good electronics retailer. They're made like a magic marker, but contain the same rosin flux that's in the center of the solder. Coat the wire and terminal to be soldered with flux before you "tin" them, and your solder will adhere and flow much better, making a stronger, more reliable connection. Use only rosin core flux on electronic wires, never acid core!

3. Use the soldering iron to heat the joint, not to melt the solder! This is a big one, and very important. The job of the iron or gun is to heat the wire and/or joint to a temperature hot enough so that it, the joint, can melt the solder. Don't place the solder against the tip of the iron and try to drip it onto the joint. Place the iron against the joint, let it heat the joint, then let the joint melt your solder. Once you get the joint hot enough, the solder will flow over the wires and connectors, coating everything evenly. This is the only way to prevent a cold solder joint, which can rob you of performance and may even break loose completely. Remember, use the iron to

heat the joint and not melt the solder. Let the joint do the melting. It takes practice, but it works.



4. Wear a glove. How many times have you had to turn a hot wire loose before the solder had cooled enough to hold it well? How many times has the heat from the joint traveled up the wire and shrunk your tubing before you were ready? Use a pot-holder type glove, or whatever you have, to protect your hands while soldering. You'll be able to hold the wires longer and steadier while soldering, and they will help cool the wire more quickly once you're done, which will save your heat-shrink.

I'd also suggest you invest in one of the small devices that have two or three alligator clips to hold your wires and terminals, sometimes called a "Helping Hands." (They often also include a soldering iron holder.) Cover the alligator clips with a piece of fuel tubing to pad them and prevent them from marring your wires. They're great for holding things steady while you apply the heat and solder. Good luck! Q

Winter Storage of your RC Gear

Last year in the October 2009 issue of the Stetson Flyer there was an article on getting your plane ready for winter. If you have not seen it or would like to review it please take a look on our web site.

If you use LiPo batteries, the current wisdom (no pun intended!) is to charge or discharge them to about 50 to 55% of their rated capacity for long term storage. It is not recommended to store them discharged or fully charged—cell damage may result.

Some of the newer charges like the CellPro 4S from FMA have a storage charge function—it will put your batteries at 50%.



CHEO Foundation Project

On Friday November 5th 2010 a delegation from Discount Hobbies and the Stetson Flyers (a local radio control flying club) met with representatives from CHEO and the CHEO Foundation to install a new Great Planes RealFlight Simulator and to present CHEO with \$1565.00 in donations collected from the Stetson members. Shown in the picture from left to right are Deanna Lawson, CHEO Clinical Facilitator; Julie Milks, CHEO MDV Manager; Robert Pigeon, CHEO Child Life Specialist; Richard Robichaud, Discount Hobbies Owner; John Jackson, Stetson Flyers Treasurer. The Flight Simulator was installed in a separate room reserved for teen-aged patients.

The project began Richard Robichaud of Discount Hobbies encountered some situations in his store that made him stop and reflect. On two separate occasions, Richard noticed parents bringing teenagers to the store who appeared to be out on a visit from the hospital, still sporting their hospital admission bracelets. You could surmise from their appearance that they were likely undergoing cancer treatments. On both occasions, these two teenagers migrated to the RealFlight Simulator station and were having a great time flying Radio Control aircraft and for a few minutes, forgetting about their medical problems. After 45 minutes, the parents had to persuade them to leave the store. Richard was really touched and decided to see if he could do something about it and help to make their situation less difficult, for both the parents and their teenagers.

Richard contacted Louise Corriveau, Planned Gifts Coordinator from the CHEO Foundation and found there is a real need for the teenagers being treated at CHEO. There are lots of toys and stuffed animals for the toddlers and under-10 crowd, but much less for the older teenagers who are being treated.

Richard contacted Great Planes and made financial arrangements to order a full RealFlight simulator station. The flight simulator has an authentic radio control and allows you to fly a model airplane or helicop-



ter at a flying field. Richard mentioned his initiative to Dan Marcotte, President of the Stetson Flyers who in turn got the club membership involved in this worthy community project. Richard has always been there to support Stetson's Flying Events and felt that this was a great opportunity for the club to give something back to the community.

After Richard made his presentation to the Stetson Members, donations of \$1565.00 were collected to accompany the flight simulator. Stetson Club Members also assisted with the modifications needed to make the simulator station ready for the hospital such as lowering the keyboard shelf and adding wheels.

In addition, a presentation of Richards initiative and support by the Stetson's Flyers, was also presented by Club President Dan Marcotte to the 2010 Annual Ottawa Valley, Model Aeronautics Association of Canada (MAAC), during their annual zone meeting, as a means to demonstrate to other MAAC flying Clubs, one type of contribution of community service Radio Control clubs can make to their community.

A special thanks goes out to all the Stetson members for their donations of time and money and especially to Richard Robichaud of Discount Hobbies for donating the Flight Simulator and making project a reality.



The New Solder - RoHS Solder (95% Tin) By Tom Hunt

From the 2010 Nov. SEFLI Newsletter

Many people have had problems recently, both in and out of this hobby, in regards to failed solder joints. Recently (2006) the EU and Asia have enacted "lead free" legislation for consumer electronics to reduce the amount of heavy metals disposed of yearly. Conventionally, electronics solder has been 63% tin and 37% lead known as eutectic solder. New RoHS (pronounced ro-hoss) solders are mostly Tin (over 95%). This changes the melting point from the mid 300 deg F to the Mid 400 deg F melting point. These 2 solders do not like mixing due to the differences in melting points. This can lead to a joint that appears to have good wetting, but the bond between them is actually a cold "reflow". This leads to a joint that fails under mechanical or thermal strain.

The best way to solve this problem is to remove all the RoHS compliant solder. The easiest way to do this on battery and ESC leads is by cutting back the pre tinned leads. On connectors and components, it is a little trickier. You have to wick it off. If you see a product with the RoHS verbiage or a compliancy statement, just keep it in mind.

Bob Aberle sent along this link where you can learn more about this type of solder.

<http://www.hardwaresecrets.com/article/RoHS-Explained/232>

Covering Idea by Vic Welland

From the Caldwell Aeromodelers, Hildebran, North Carolina

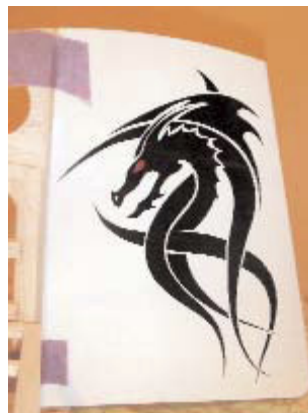
Have you ever wanted a graphic or picture for your model but didn't want to spend a ton of money to have a custom sticker made? This technique, developed by Brian Ireland from the Frontier Fun Flyers of Alaska, allows you to have a detailed image made of several pieces, keeping them in their proper location to each other, while cutting them out and transferring them to your model.



Using your covering of choice, a piece of glass, Windex, razor or XActo blades, Glad Press'n Seal Wrap, and your normal covering tools, you can have the image you want with a steady hand and some time.

Let's begin by printing your image in the size you want on a regular piece of printer/copier paper. This is assuming your image will fit on a standard sheet of paper, of course. I recommend you start simple the first time out.

Spray some Windex onto the surface of the glass, be sure the glass is free of dust and debris to keep things clean and bump free. Remove the backing from your covering and lay it down on top of the Windex and glass. Squeegee the excess Windex out so you have a good bump/bubble free piece of covering to work on. Let things dry for several hours.



Tape the piece of paper with your image directly over the covering and glass while being careful to not move things around and wrinkle the covering.

Here is where a steady hand and time come in. Carefully cut out the image with your razor or X-Acto blade. It's a bit easier if you start at the top and work down while working on the small fiddly bits that need to be removed first.

Once you are satisfied that you have the image cut out you should

be able to see what your piece(s) will look like as they are located on the glass plate.

Here is the cool part. Using a piece of Press'n Seal, cover your image completely and press it down with some form of straight edge (credit cards work great). Gently peel the whole thing off the glass. The Press'n Seal will hold your covering in location and allow you to move it to your model.

Again apply Windex to your clean, dust-free model followed by placing your Press'n Seal/image assembly in the desired location. Squeegee the excess Windex and bubbles out as you did when you put the covering on the glass sheet. Allow to dry for several hours.

After a reasonable period of time (overnight is recommended) using your heat gun on low heat, gently play the heat onto the Press'n Seal to get it to release from your model's covering and the covering your image is made of. You should now have your image securely located on your model and looking great! It's recommended that you go back over the edges with some trim solvent or acetone to ensure a good bond.

This idea has been condensed from several posts in RC Universe by Vic W. The thread can be found at http://www.rcuniverse.com/forum/m_6686800/anchors_6867168/mpage_2/anchor/tm.htm#6867168.

Watch the YouTube tutorial by Brian Ireland at <http://youtube.com/watch?v=8NhLZ-4V1pM>.