



KNOX COUNTY RADIO CONTROL

## Newsletter

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## THIS'N THAT

► **Did you notice the date above?? March already! Flying season is almost upon us.**

► Thought I'd start out this month with a building note. Joel Hebert is one of those folke who like something different and he demonstrated it at the January banquet. I think you'll enjoy.it...

### ► **JOEL'S FOAMY**

The "paper" plane I had at the banquet was made by me from online plans at FliteTest.com. My plane was the Mini-Scout from FliteTest's "Mighty Mini" series. I downloaded the plans, printed them, taped them together and cut out the patterns, traced them onto a piece of DollaTree foamboard, cut them out with a sharp Xacto blade, and hot glued it together,



Here'the kit:

<http://store.flitetest.com/mighty-mini-scout-speed-build-kit/>

You're paying \$15 for a sheet of DollarTree foamboard, pushrods, control horns, and landing gear wire, but the lazer cutting is very nice.

You can download the plans and get a sheet of foam board from DollarTree ( for \$1) and cut it out yourself (anyone got a lazer cutter?):

<http://stonekap.net/ftplans/FT-MiniScout-TILED-PLANS.pdf>

Here's the build instruction video:

<http://flitetest.com/articles/ft-mini-scout-build-mighty-minis>

Here's the parts I used and they all came from Hobby King.

- 250 size 2050 Kv motor:
- 5 gr servoes:
- 10A ESC:
- 500 mah 2S battery:

I got some GWS 7x3.5 props and they load the motor to about 5.7 amps so it's not overloading the motor, I don't know if it's the best prop yet; I'm sure it will fly it OK, but there may be a better prop for endurance or acceleration. More experimenting for this motor to come.

The wheels can be made out of the foamboard as shown in the plans and the I horns can be cut out of old credit cards:

Of course you need a Rx to match your Tx and there are several Spektrum clone micro Rx out there. I'm sure **Jack Cooper (785-658-6291)** can supply equivalent components and have them here in town quickly.

The hot glue gun I used came from Walmart for about \$10): You need a good glue gun that can put out a good quantity at one shot; the little mini-guns don't work too well for this. Be sure and avoid the glue sticks that are "milky" instead of clear. They don't stick well.

And of course the Dollar Tree white foamboard (don't get the black), a small piece of poster paper ( I just used a piece of a manila file folder), some packing tape, a BBQ skewer or two, a small piece of 1/16"ply for a firewall (you could probably use a piece of a credit card), some pushrod wire, and some sharp Xacto blades (I resharpen mine), and a good cutting board and staight edge ( and some band-aids if you're not careful about clearing your fingers from the cut line!) .....**Joel Hebert..705-9618** ■

### ► **FINISHING YOUR PLANES WITH AWESOME GRAPHICS**

By Frank Allemand

The purpose of this article is to alert you to how easy it is to get finishing graphics to make your planes look great.

Many of us want to repaint and change the look of a plane to something we can get more excited about, and it often requires a complete set of decals or graphics

to properly finish it off.

I have recently done this with two different planes. The first was a Hobby King "Cobra", a military style jet that unfortunately had an excess of striping and an abundance of cobra snake insignias. I decided it could be made into a camouflaged navy jet and chose one to copy from the Pensacola aggressor squadron. I liked its look because it has the usual navy markings along with some red rudder designs and a red star to signify its role in the Navy war games.

I contacted Callie of Callie Graphics for the first time. Her web site is [www.callie-graphics.com](http://www.callie-graphics.com). Callie said "not a problem to make up whatever you want, just send me plenty of pictures." I was able to find about 6 pictures that included all views of the plane. After I emailed them to Callie, she gave me a price quote of \$30 for the whole job. I thought that was fair, and placed the order. The graphics arrived a few days later. The quality was excellent, and they finished off the model nicely. You can judge for yourself by looking at the before and after pictures.



*Illustration 1: Cobra Before*



*Illustration 2: Cobra After*

On a second project I changed a Hobby King "Sky Mule" transport/rescue plane to a US Coast Guard model. The Sky Mule also had excessive ugly striping (at least in my opinion), and huge Sky Mule decals all over the place. This time I sent Callie just two pictures to convey what I was looking for. She agreed to put it together along with a few extra things I might consider for a price of \$24. The quality was again excellent and was everything I needed plus some. The before and after pictures for this model are shown as well.

Callie's prices include shipping and her service is outstanding. I think she probably has done just about every plane around, and keeps files for all of them.



*Illustration 3: Sky Mule before*



*Illustration 4: Sky Mule after*

If you have any questions about plane painting or graphics, please let me know. If you need any graphics, you might want to check out her web site.... Frank ■

## **INDOOR FLY-IN**

The January 27th indoor fly in at McGee Tyson was another success as seen by some pictures and text sent by Joel Hebert.



*Illustration 5: Ralph Holder and Joel Hebert signing folks in.*

Joel sent another note about some attendees. "At our 1/27 Indoor Funfly, KCRC had some

young student flyers from the South Doyle Middle School Science Olympiad teams. 8th graders, Conner McGinley, Marley Harriman, and Evelyn Jackson were at the TAC hanger with modeler coach Neil Henderson and physical science teacher Bryan Schultz along with other friends and family to watch



They were working on trimming out their planes for the "Elastic Launch Glider" event, one of 23 events in the Olympiad. These gliders were constructed from balsa and sheet foam with a minimum weight of 4 grams, and used a stick with about an 8" loop of contest rubber for launch power. The goal was to trim them out to get a good steep launch and climb and then quickly transition to a gentle and stable circular glide path. Coach Henderson was recording times in excess of 13 seconds with hopes of further improvements. It looks like these young competitors are well on their way to some good scores in the Olympiad..." ...Joel

► Kevin Turner was another flyer at the indoor fly-in. He also took several pictures of the flying. I just had to include one of them. It's his son Evan and he is a flyer



with a good deal of talent.

Here is the link to Kevins pictures if you want to

see them; ...

<https://flickr.com/photos/76997724@N07/sets/72157648214090304> ....

## Things That I've Seen at the Field That Scare Me

by Allan Veleo. KCRC Safety officer

I saw a pilot warming up a nitro engine with his shirt tails flapping in the breeze in front of the prop. The model was restrained on a stand but his shirt tails weren't. The prop wash nearly had his shirt tails and only millimeters separated the pilot from a big surprise. Loose clothes can cause lacerations.

I saw a couple of our people working on an airplane that was in a cradle, on the concrete walk in the pit area. I guess I'll just have to keep hammering on keeping the walkways clear, especially the pit area where falling could lead to contact with a spinning propeller.....Allan

Editors note::: I like the way Allan points up the not so obvious safety issues. Most all mechanics and people who work with machines with spinning mechanisms have learned the dangers of loose clothing....

## MODEL OF THE MONTH CONTEST

Randy Philipps sent me photos of the February Model of the Month winner and runnerup. The contest is one of the more popular events in KCRC.. I enjoy seeing what guys are building and where their interest lies. One thing I've noticed over the years; Winning is actually not as important as getting to show off your pride and joy.

Here are the February entries



This is **Brad Butsbach** and his gorgeous WWII Grumman fighter. This one was the runnerup in this months contest.

Brad says:..” The model is an ESM brand Hellcat ARF as sold by Troy Built Models. The model represents an F6F-3 Hellcat of VF-27 as it appeared in October 1944 when it served aboard the USS Princeton. This was the only squadron of US Hellcats throughout the war that uniformly displayed markings other than those officially sanctioned by the Navy.

It has a 74" wingspan and is powered by a converted Poulan 46cc chainsaw engine. The engine choice dictated considerable reinforcing of the airframe, especially at the firewall. It swings a 20-8 Xoar Propeller but may get an 18-10 three-blade WWII style prop after the maiden flight. The scale Prop Nut is from Tru-Turn. Estimated weight is 19lbs. It will eventually get Sierra rotating retracts when they become available. The pilot bust is from Aces of Iron and is 1/7 scale. The segmented flaps required some re-engineering to operate correctly. I embedded Nyrod segments into each flap segment then free-floated a steel rod to connect the flap segments. Now, when the flaps operate, the gap opens but the slave flap segment is solidly connected to the master via the internal rod. This saves the weight of two additional metal geared servos. Both Elevator and Rudder are pull-pull to reduce the need for addition nose weight. The tail wheel is also linked to the rudder via it's own pull-pull cable. I hope to maiden the F6F later this Spring. ...Brad K. Butzbach CSTE, CBNT "

**The next picture is the MOM winner;**



This is **Kay Kasimer** and his scratch built Graupner Amateur from kit plans.

**Kay** says: "This is some info on the Graupner Amateur that I presented at the club meeting tonight, winning model-of-the-month.

Graupner used to be the marked leader for R/C in Europe. I grew up browsing the Graupner catalogs, which were 1 inch thick, telephone book sized full color catalogs of their kits, imagining what it would be like to build all of them. With the decline of kit building and then the 2.4 GHz changes to radios, Graupner rapidly declined and went bankrupt in 2012. Ever since, I've been looking for Graupner plans or even kits on ebay, and one I found was this "Amateur". It's been in their product line for decades. I believe the kit I got to be at least 30 years old. One great thing about especially older kits is the plans. They show every former, rib, how to bend the landing gear, etc. You can build everything from just the plan. The kit was complete with die-cut ribs, printed plywood, some tissue covering paper and even the wallpaper glue for putting the covering on, but I chose to build everything from just the plan, with a few modifications: Electric instead of glow power, tail dragger instead of tricycle, lighter foam wheels, monokote covering, and most important modern radio gear with

small servos instead of the old escapement setup. Some data: Wingspan: 110 cm., Area: 18dm2, Weight: 650g Motor: Atlas AM2312/26, Prop: 9x6, Battery: 3 cell, 2200mAh LiPo.

Completed weight matches what the original estimated for the free-flight configuration, without radio! I happened to have grey Monokote around, so I tried to cover it as shown on the kit's box art. I'm surprised how pleasant the color combination turned out. The lettering and "Graupner" logo were cut from Monokote based on copies from the plans.

Flying it couldn't be better in no-wind conditions. Current draw is up to 10Amp, but plane still slightly climbs at 1/3 power, so full throttle is rarely necessary.....Kay "■"

### **KCRC February 2015 Meeting Minutes**

President Ralph Holder called the meeting to order at 7:01PM 2/10/2015. There were approximately 31 members present.

President Holder began by recognizing the ongoing extraordinary contribution of several members including:

Jim Scarbrough for his outstanding job with our club newsletter. Due to his wife's health as well as his own, he has been unable to fly or attend the meetings.

Phil Cope for stepping up and accepting the responsibilities for Presidency when our elected President, Andy Keeley had to step down and move due to a job relocation.

Lastly, Joel Hebert our treasurer for helping the President and providing data to create a financial history of the club over the past five years that will soon be discussed..

Treasurer Joel Hebert read the Treasurer's report. The report was approved by members present via voice vote.

President Holder presented a 2015 budget he prepared. He also presented the most recent 5 years of actual income and expenses (2010 – 2014). A general discussion ensued in which Ralph said our club has run a deficit in 3 of the past 4 years. The main difference in the one year (2014) we did have a surplus, was the fact that volunteers (including Ralph Holder, John Basalone and others) performed mowing duties without compensation. Since mowing is our largest budget item, this alone was responsible for keeping the club in the black for 2014. Ralph suggested that for 2015 we should have increased volunteer work days to do our own mowing, thereby building our cash reserves for inevitable future facilities maintenance.

- Vice President Ralph Colon gave a report on the TAC indoor fun fly which was held 1/27/2015
- Safety officer Alan Valero gave a safety report.
- Ed Dumas gave a report on the prospective upcoming visit by NOAA officials. Ed will keep us advised as plans are firmed up.
- Treasurer Joel Hebert announced that members need to pay 2015 dues by the March meeting after which a \$5 penalty will be imposed and \$10 after the April meeting.

- A relatively new member, Jack Cooper, announced that he is in the RC model business and can sell RC related stuff, including Planes, Transmitters, etc. at better prices than we might otherwise pay.

- **MODEL OF THE MONTH**

Plane of the month was won by Kay –Uwe Kasemir

- **CRASH OF THE MONTH**

Crash of the Month was won by Errol Lyons  
President Holder adjourned the meeting at 8:16PM.

**Minutes were taken by Rick Thompson**

Randy Philipps sent the picture of the meeting group.



EDITORS NOTE:: If I might make a comment. I've noticed that very few members take part in doing service work at the field. In years past, we held a work day every four to six weeks to clean up and maintain the plant building structures. Members did all the work on building the pavilion and the shade structures as well as all the electrical wiring.

The mowing is the big expence and needs doing every week or so in the early days of spring and summer. It can be done quickly and easily by a couple of members but mowers have to be trailered in. It would be great if we could keep mowers at the field but I think that would be impractical. We have to depend on members to get the work done in order to keep within the budget....

**MORE OF THIS'N THAT**

► Every so often George Shacklett checks in. George is an Emeritus member of KCRC and a rabid



Society of Antique Modeler Hall of Fame member.

George is about my age but he misses very few SAM events in this area. This picture is from a meet in Florida on February 3, 2015. The fellow in the hat holding George's Flamingo is L.A. Johnston from middle Tennessee who is just as rabid in SAM as George..

► Here are a couple more pictures from Joel taken at the recent indoor fly-in....

The first is Joel checking in some flyers.



And the next is a pretty good view of the inside area of the hangar. Looks like a good place to fly..



► And one last picture. A little snow just adds a challenge. Phil Cope, Randy Philipps and Rick Thonpson went flying a couple Sundays ago when most sane people were home by the fire.. Randy says it was



bit tough to get up the hill but what the heck!! Randy sent this picture of some dedicated flyers. The good looking Aeromaster is Randy's, the Cessna is Rick's and the Tiger is Phil's... ..