



# HI-SKY R/C FLYER

July 2005

President: Gene Laughlin  
Vice President: Jim Ruple

Treasurer: Ed Anderson  
Secretary: Jim Tartt

## Minutes of the Hi-Sky R/C Club JUNE 7, 2005

The President called the June 2005, meeting to order at 7:05 p.m. at the Midland Club Flying Field.

Thirteen (13) members were present.

The minutes were approved as read.

**GUEST:** None

**Field Report:** Mike said all is good, the weeds need to be removed from the flying surface and around the covered area. Bruce Hoover volunteered to be over the field for the next year.

**Safety Report:** A.J. Lee said all is good, fly safe.

**Activity:** The Electric Fly-In / Swap Meet will be July 9<sup>th</sup> - 10<sup>th</sup> at the CAF Hanger at the Midland International Airport. Mike Scott is coordinating the advertising. Help is needed setting up tables in the CAF hanger July 8<sup>th</sup> at 5:00 p.m.

**Old Business:** Bruce Hoover and his wife are setting up the new club web site and they will be paying for the \$8.95 per month fee. The club will reimburse Bruce for the web site fee at the end of the year.

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## From the Robbins Nest:

### *4<sup>th</sup> Annual Hi-Sky CAF Electric fly-in:*

Our annual electric event is finally here. There are several things you need to know about the function. The first item is that we plan to meet at the Hi-Sky wing (the hangar immediately East and across the street from the CAF) at 4 PM on Friday to set up tables and prepare for the event.

We will be provided with about 12-17 tables from the CAF, and Ken's-Rental will deliver 30 additional tables. It won't take very long to set things up, and getting an early look at the WWII aircraft is a great treat.

Friday night, Mike Scott has arranged for us to rent the MLK activity center (gym) from 7 PM – 11 PM. This will be paid for by attending pilots, and should be an excellent kick-off for the main event on Sat.-Sun. The out of town pilots really enjoy getting to fly all they can, and this gets everyone into the air a day early. If you need to practice, or have never flown indoors, this is an excellent opportunity to take to the calm skies of a gym!

We need to address the issue of food at the event. Something needs to be provided, and hopefully we can get a plan together at the meeting.

You won't believe the raffle items I have put together. You should plan on attending just for this portion of the event. Check this out!!!!

### **Drawing at 2 PM Saturday (Must be present to win)**

- 1-Futaba EX-PCM (transmitter only)
- 2-Phoenix 35 brushless speed controls
- 4-Phoenix 10 brushless speed controls
- 2-USB programmable controller for the ESC's
- 1-Mini IFO airplane kit
- 1-Strong RC complete CD rom outrunner motor kit
- 10-one year magazine subscriptions
- 13-bottles of CA glue, kicker, and Foam friendly CA
- 1-\$25 gift cert. from FMA Direct
- 10-\$10 gift cert. from Dymond Hobbies

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**New Business:** None

**Show and tell:** None

The meeting adjourned at 7:28 p.m.

### Upcoming Events

Electric Fly In / Swap Meet-July 9<sup>th</sup> & 10<sup>th</sup>

Callin' of the Hogs - September 10th

### Picked up Passing By

I hope everyone has visited our website. Bruce has done a great job making the site attractive and bringing it up to date. If you have not visited our website, please do and tell Bruce how great it looks.

The field is looking good. We have had some good winds lately. Maybe we did not have enough wind during the spring. This brings up a point that I would like to mention. Do you put a weight down to keep the wind from blowing your plane around? If not maybe you should. We can have a "dust devil" develop in a short time. If you think they are mild, ask David Harrell what happens when a dust devil picks a model off the ground. Do not try to fly through one either. That is not a pretty sight.

Another weather item worth noting is lightning. Do not wait until there are sparks playing around the knobs and sticks on your transmitter. That is inviting disaster. We have all read about someone getting struck by lightning. And lightning can strike year round although summer is the time we think about the strikes. And we are outside with our transmitters more in the summer. The antenna is a great attractor for a lightning strike. If you can hear thunder, lightning is close enough to strike your location at any moment.

Lightning safety guidelines if there is an indicator of a storm:

Land promptly and get inside your vehicle. Don't depend on the covered shelter to protect you. Don't wait for the rain. You can be struck by lightning even though it is not raining. Don't lean on your vehicle, bicycle or motorcycle. If you hear thunder, head for safety.

Our Model Aviation magazine has a good discussion on page 174. The column is Focus on Competition. As most of you know competition is not my thing. But this column is well worth reading. It concerns the habit that a lot of us have when we are alone with only another flyer. That is the habit of not "pinning up". I would encourage everyone to read this article and take

it to heart. Your loss might not be only a model airplane.

### \* \* \* Meeting Notice \* \* \* \*

The July meeting of the Hi-Sky R/C club will be at the club field July 5 at 7:00 PM. As usual there will be time for flying before and after the meeting. See you there.

### Looks Good, But Will it Fly

There are two methods to use in determining that a model will perform satisfactorily. Those are "wing loading" and "power loading" of the plane and engine. Wing Loading

To calculate the wing area, multiply the span in inches by the chord (width) in inches. Divide the area in square inches by 144 to get square feet. The weight of the plane in ounces divided by area equals ounces per sq. ft.

Example: Wing span=50"; Chord=10"; weight=80 oz  
50" X 10" = 500 sq in  
500/144 = 3.47 sq ft  
80 oz/3.47 sq ft = 23.05 oz/sq ft

Normally a good flying model has a wing loading of about 23 oz per sq ft (1 lb per 100 sq in) or less. The larger planes will fly well with a higher wing loading.

#### Power Loading

Most kits you purchase will have a range of engines to use such as .40 to .46. These should be used as guides. If we were at sea level, a .40 will probably fly this model OK. Since we are at about 3000 ft altitude with a temperature of 90 degrees, the engine will only develop about 85% efficiency. Therefore the .46 would be the better choice.

The following equation is one I have used to good advantage for the last few years. A good value to use for sport models is 200 oz per cubic inch of engine displacement. For trainer type planes with a flat bottom wing use 300 oz per cubic inch engine displacement.

Example: Weight of 7.5 lb or 120 oz.  
Sport plane 4 Star 60 for example  
120 oz/200 = 0.60  
Trainer plane 120/300 = 0.40

If you want a little extra power, use 150 instead of 200.

Example: Taking the 4 Star 60 and using the value of 150 gives: 120/150 = 0.80 therefore a 0.90 would be an excellent power plant.

The above figures are only an estimate for the probability of a good flying model. There are a lot of other factors to consider. The choice of propeller will have a great effect on the planes performance.

By Harold Wilson High Sky R/C Club

## CALENDAR OF EVENTS

HI-SKY R/C ELECTRIC FLY IN & SWAP MEET

CAF HANGER

JULY 9 & JULY 10, 2005

**WEST TX JET FX RALLY**

ODESSA CLUB FIELD

JULY 15 – JULY 17, 2005

Odessa Big Bird

Odessa Club Field

August 13 & August 14, 2005

Callin' of the Hogs

Midland Club Field

September 10, 2005

Thought for today:

America: Home of the free - because of the brave.

1. Friday 8<sup>th</sup> – meet at Hi Sky Wing at 4 PM for setup

And we could get more!! This is going to be our biggest and best event yet for electrics. Don't miss this one!

Summary:

1. Friday 8<sup>th</sup> – meet at Hi Sky Wing at 4 PM for setup
2. MLK activity center flying from 7 PM-11PM
3. Sat & Sun CAF hangar flying 8 AM – 5 PM
4. need to discuss food issue
5. need to discuss money collection issue for entry & raffle
6. need to bring tickets for raffle to event Sat.

MIDLAND, TEXAS 4TH Annual-2005

**Commemorative Air Force  
& Hi-Sky R/C CLUB**

**INDOOR ELECTRIC  
FLY-IN & SWAP MEET**

**Saturday, July 9th  
& Sunday, July 10th**

**8:00 AM - 5:00 PM**

**\$6 MUSEUM ADMISSION REQUIRED EACH DAY**

Speed 280 & smaller motors  
AMA card required to fly

**Midland International Airport  
At large hangar South of CAF Museum**

**INFO: Mike Scott  
432-262-5132**