

# Carrier Wave

**Newsletter of the Phantom Flyers R/C Club**

<http://phantomflyersrc.com>

CLUB OFFICERS	Work	Home
President – Herb Johnson	777-7974	(636) 207-9895
Vice President – Ed White	232-1479	(636) 441-6431
Secretary – Mitch Galatioto	234-5141	(636) 447-5484
Treasurer – Dan Sundman	777-9204	(636) 281-0676
Safety Officer – Emery Kattelman		(636) 946-3511
Boeing Rec Counselor – Larry Leuschke	234-5116	(636) 537-1472
Field Manager – By Committee		
Chief Flight Instructor - Al Bone		(636) 723-4062
Activities Committee Chairperson - Dan Abel		(314) 830-0138

Board of Directors:	Work	Home	Send Membership Renewals to:
Phil Moore	(314) 777-4167	(636) 928-5342	Mitch Galatioto
Ed White	(314) 232-1479	(636) 441-6431	574 Wyatt Dr.
Jim Wortkoetter	(314) 777-8953	(636) 947-1034	St. Peters, MO 63376

Send Newsletter Items to:

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Wentzville, MO 63385

## **December 2005 - January 2006**

### **Upcoming Events/Important Notices**

**January 18, Club Meeting at Senior Center**  
**February 15, Club Meeting at Senior Center**

#### **Notes from the Editor**

Articles, pictures, and tech notes for publishing in the Carrier Wave are always appreciated. Since I try to get the Carrier Wave out a week before the meeting, please submit items a week and a half before the monthly meetings. Please send pictures, preferably in JPEG format, in separate files from text files. Text should be in MS Word format, a simple text file or some format that MS Word can read. Indicate where pictures should be in the text with a note in parentheses such as (Picture ABCDC001.jpg goes here). I will integrate text and pictures in my page layout program.

Thanks,  
Dave Evans



## Phantom Flyers RC Model Airplane Club Minutes – 16 November 2005

The meeting was brought to order at 7:12 by exiting President Herb Johnson. There were 20 members in attendance.

**Secretaries Report:** The Secretaries report was approved as written.

**Treasurer's Report:** The club continues to remain solvent. The report was approved.

**Recreation Report:** There was nothing to report from Recreation this month.

**GSLMA Report:** There was nothing to report this month.

**Field Manager's Report:** The concreting of the pavilion floor has been put on hold for now. The prices the club has received is prohibitive. We had some damage to the flying field from a person running their truck around the property. There are severe ruts in the grass now. The club will use existing field budget to line the field with metal poles along the road to prevent people from driving on the field. The poles will be on centers to keep ATVs as well as vehicles off the field. The new lawn mower will be stored in George Dauble's garage. Emery Kattlemen will trailer it to his house. Thanks George and Emery! Don Albert performed maintenance on the green mower. Thanks Don! Bill Ahrens brought up sealing the runway next year. We probably need to get this on the agenda for next year.

**Safety Report:** Nothing to report this month.

### Activities Report:

Dan Abel let us know that the Christmas party on 3 December has to be moved as the church is not available. We'll look into a new location and will notify the club. The club will front the caterer up front for food preparation.

### Old Business:

Larry Leuschke is working on the Expo already. He's setting up the table reservation plan and determining how to set up a Pay Pal account for the internet. Larry still needs help calling the various clubs to get a larger variety of equipment at the Expo. Please contact Larry if you want to help. It won't take too much time and will actually be fun!

DUES are due. Please fill out a new membership form, sign the hold harmless at the bottom and send in your check by 31 December 05 or you will be charged a late renewal fee of \$15! If you joined the club after Jun 1<sup>st</sup>, you do not have to pay dues for the upcoming year, but you do need to fill out a new form and sign it. Remember to get your AMA payment in early as well so your membership card can be issued.

The following people volunteered for offices next year. Thanks!!!

### Club officers - Elected

- |                        |                   |
|------------------------|-------------------|
| - President (Employee) | - Ed White        |
| - VP                   | - Frank Thomas    |
| - Secretary            | - Tim Wortkoetter |
| - Treasurer (Employee) | - Dan Sundman     |
| -                      |                   |

### Club officers - Appointed

- |                           |                    |
|---------------------------|--------------------|
| - Webmaster               | - Jim Alberico     |
| - Recreation Councilor    | - Larry Leuschke   |
| - Safety Officer          | - George Dauble    |
| - Activities Chair        | - Dan Abel         |
| - Field Manager           | - ? Need Volunteer |
| - Carrier Wave Editor     | - Dave Evans       |
| - Chief Flight Instructor | - Al Bone          |
| - Tech Director           | - ? Need Volunteer |

A motion was made and approved to accept the new slate of officers. Thanks to all the volunteered!

Paperwork turned in to hold the meeting room for next year's meetings.

Many club members are participating heavily in the UAV programs. Thanks to all who are helping out.

**New Business:**

Mark Twain hobby is going to put a flyer together with all the club's names and POCs to include with each airplane purchase to help people get involved with a club to help them learn to fly. Dan Abel or Ed White will be the name.

The club meeting was adjourned at 8:22 p.m. Next months meeting will be at the St. Peters Senior Center on 18 January 2006! My how time flies

*Mitch*

**Greetings from the President.**

How many of you know what that phrase use to mean? We'll get back to that later. We had warm weather and a bit of a breeze for the New Year's Day fly-in, but not many of us there at our field. As far as I know it was just Al Bone, Emery Kattelman, myself, and a prospective new member who we hope to see at the January meeting. As far as we know Emory was the first to arrive around 11:15 am and claims the first flight of the year. Any flights earlier? Emory also claimed the first of the year of something else - begins with a "C" and ends with "ash".

Overall the field is in pretty good shape with some damage to the grass that we'll have to roll out when the weather is right. Also, the sand piles off the north end of the runway are almost completely gone. So are a lot of the trees, although the nearest trees are still there. If we take those remaining trees out, there should be nothing to interfere with landing from the north.

I have a couple acts already as new President. First, I have created a new appointed club office, Liaison to Boeing Flight Test. Because our involvement with the company will only increase with the increasing work in UAV's, I thought it would be best if the company has an official single point of contact with the club. The Liaison will primarily act as a club advisor to the company flight test department, especially in matters regarding use of our field and any other time they need RC help. Herb Johnson has agreed to take on this position.

Second, we have a vacancy on our Board of Directors that we need to fill. There is really not a lot explicitly defined for the Board of Directors to do. Actually, nothing that I am aware of, and they have no power beyond that of any club member. But they are required by both our by-laws and as part of our incorporation status. In practice, they are another source of ideas for our officers and usually get on the email distribution for things the officers need to deal with, and they are responsible to ensure that a yearly audit of the Treasury gets done. The by-laws say that when a vacancy arises on the Board of Directors, a new member is appointed by the club officers and must be an employee. They serve an indefinite sentence, I mean term. Any volunteers?

Third, although we have had only minor problems with damage to the field recently, I would like to keep a bit more formal record of these instances. I'm going to make up a form and put blank copies in the john. I haven't made the form up yet but I envision a drawing of the field where you would sketch on the damage location and give a short description. The club Secretary will keep the official record of these forms.

Last, please don't hesitate to contact me with your ideas, questions and concerns.

Oh yeah, once upon a time "Greetings from the President" was the opening line on your letter stated you had been drafted into the military. This is your notice that we need your help. Not a lot of it, but we are a volunteer organization so we depend on you to get things done. Please consider getting more involved in club activities, we need all the help we can get! The first order of business is always the Swap Meet. Planning is getting into full swing now. Please contact Larry Leuschke if you can help out!

So for now welcome to 2006 and Have a Happy *and Safe* New Year!

Ed White

EVENT	2006 DATE	DAY	2006 CD
SNOW FLY	1-Jan	SUN	
CLUB MTG @ SR CENTER	18-Jan	WED	CLUB PREZ
CLUB MTG @ SR CENTER	15-Feb	WED	CLUB PREZ
SWAP MEET	25-Mar	SAT	LARRY LEUSCHKE
CLUB MTG @ SR CENTER	15-Mar	WED	CLUB PREZ
PACK 30 ROCKET LAUNCH	15-Apr	SAT	GARY LUEBBERT
CLUB MTG @ SR CENTER	19-Apr	WED	CLUB PREZ
CARRIER FUN FLY	7-May	SUN	AL BONE
FLOAT FLY PRACTICE : 12-4 PM	13-May	SAT	DON VETRONE
CLUB MTG-FIELD	17-May	WED	CLUB PREZ
FLOAT FLY : 9:30 AM -12	27-May	SAT	DON VETRONE
PATTERN SEMINAR 12 NOON	3-Jun	SAT	ED WHITE
FAMILY BBQ and BUILD-A-PLANE	11-Jun	SUN	
CLUB MTG - FIELD	21-Jun	WED	CLUB PREZ
FIELD PREP FOR ELECTRIC FLY	15-Jul	SAT	
ELECTRIC FLY	22-Jul	SAT	
ELECTRIC FLY	23-Jul	SUN	
CLUB MTG - FIELD	19-Jul	WED	CLUB PREZ
FIELD PREP FOR CONTEST	19-Aug	SAT	BILL AHRENS
CLUB MEETING - FIELD	16-Aug	WED	CLUB PREZ
PATTERN CONTEST	26-Aug	SAT	ED WHITE
PATTERN CONTEST	27-Aug	SUN	ED WHITE
FIELD PREP FOR HELICOPTER FLY	9-Sep	SAT	
HELICOPTER FLY IN	16-Sep	SAT	
CLUB MTG @ SR CENTER	20-Sep	WED	CLUB PREZ
CARRIER FUN FLY	23-Sep	SAT	EMERY KETTLEMAN
CLUB MTG @ SR CENTER	18-Oct	WED	CLUB PREZ
CLUB MTG @ SR CENTER	15-Nov	WED	CLUB PREZ
CHRISTMAS DINNER	2-Dec	SAT	CLUB PREZ

Direct any comments about the schedule to Ed White, alias the Prez.

Contest Directors and organizers are still needed for events with a blank, please contact Ed White to volunteer. Volunteers will, of course, be needed for all of the events. Lets make this another great year for our club and our hobby.

## Notes from the Christmas Dinner

Debbie did an excellent job with the cooking. The departing President, Herb, had two servings of everything. The new President, Ed White, was there, and Herb seemed very happy handing over the reigns of power to him. After dinner the annual awards were presented by Herb. Club Service Awards were presented to George Dauble, Emery Kattelman, Frank Thomas, Donn Albert, Dan Abel, and Larry Leuschke. Two special awards designed by Herb were given. An "Outstanding Performance Award" was presented to Mitch Galatioto for his work on the 2005 club flying field lease renewal. An award titled "Tops in Competition" was presented to Bill Ahrens for his dedication and success in formal aerobatics competition.

"Flight-a-Month" awards were presented to Dan Sundman and Will Feldmeier for flying every month in 2005. Dan Abel presented a special plaque award to Will Feldmeier for completing 35 years of flying every month. Wow! I wonder if this is a national record?

Dan Abel had his new adopted family at the dinner, and Dave Abel was there. Dave is moving back from the Edwards AFB area.

Hope everyone had happy holidays!

Herb Johnson









Looks like everyone had a great time!

## PRODUCTION OF ELECTRIC J3 PIPER CUB

My first R/C plane was an electric J3 Piper Cub kitted by Great Planes. It was built in the fall of 1989 and first flown in January of 1990 at our old field on HWY 94 in Weldon Spring. Ed Henry and Charlie Bonney were my instructors.

Specs were:

Wing span: 58 3/4"

Fus length 37"

Weight 54 1/4 oz

Wing area 471.5 sq in

Wing load about 17 oz sq. ft.

Motive batteries 6 1200mah NiCad

Radio Batteries 4 400mah NiCad

Throttle control Remote on/off switch

The plane was underpowered with 6 cells for its weight and did not perform well at all. It crashed the third time it was flown for lack of power but was easily repaired.

Later I went to 7 cells, which helped the power somewhat but made it almost 2 ounces heavier. The power output to current draw at that time was about .9 ounce of thrust per amp. So for 20 amps of current @ 7 volts at the motor you got about 18 ounces of thrust to drive a 56 ounce airplane. The thrust was 32% of the weight. Not too good but probably more scale-like.

As electronics for electric flight improved over the years, I eventually eliminated the 4 radio receiver batteries and went to a speed controller and also a 2.5:1 ratio gear box. The gear box required a larger prop of about a 10X8 diameter, but now the thrust ratio increased to about 1.25 ounces per amp. This was better and the plane was now at about 53 ounces in weight. This meant that for 20 amps of current one could get about 25 ounces of thrust to drive a 53 ounce plane. That's about a 47% power to weight ratio which actually was quite adequate for just plain flying.

Sixteen years later in 2005, Great Planes came out with an improved version of its electric Cub so I bought the kit a couple of months ago. The pictures you see is the fuselage about 98% complete with the electronics, controls and motor installed and the wing ready for covering. Unfortunately, the original seven cell battery compartment design was not changed at all in the new kit, so I modified it to hold from eight to ten 1700mah NiMH cells. The ten NiMH 1700mah cells weigh about the same as the seven 1200mah NiCad batteries. This is a great improvement. I can now get about a 60% thrust to weight ratio of power using the much lighter 8 cell NiMH battery pack. At the stage of construction that I have the Cub in now it weighs 46 ounces with an eight cell NiMH 1700mah battery pack. I imagine that by the time I cover the wing and put plastic glass in the windows, and make other small "improvements" it will come in at about 49 to 50 ounces of weight with the 8 cell NiMH battery pack. The new Cub version is exactly the same size as the original 1988 version but is made a little better and has working ailerons whereas the original kit does not, and also has see-through windows whereas the original does not.

The gear box that I chose to put in this plane is a 2.3:1 ratio belt driven English model that I have used on other planes before. The prop will be a German 10X8 Graupner carbon filled version that I have not used before, so I'll see how this one works. The motor is a Japanese Kyosho Magnetic Mayhem truck motor that I have used on other models. For the same voltage and amperage, this motor produces 10% more prop RPM than equivalent aircraft motors and remains fairly cool.

You can see my old J3 Piper Cub on the wall rack under my Partenavia. It looks essentially the same as the new version. All my planes are electric powered.

Al Grossmann



Finally, one gratuitous picture of a nice airplane as a page filler:



MEETING OPENED: 7:05 PM

ATTENDANCE: Aero Pilots, Lone Eagles, Thermaleers, St. Louis R/C, Signal Chasers,  
Whirley Birds, Rocketry Assn.

MINUTES: Approved as published

TREASURER'S REPORT: Old Balance \$8380.05                      New Balance \$9311.47  
Buder Permits Issued in Dec. – 36

**OLD BUSINESS:**

- ◆ **Repaving of Flying Surfaces:** we still do not know how much it will cost to do this work. Therefore, we need to keep building the treasury with donations from Buder Permits.

**NEW BUSINESS:**

- ◆ **Steve Mizerany proposed two changes to Article 8 of GSLMA By-laws:**
  - Paragraph A: Change meeting time from 7:30 to 7:00 PM
  - Paragraph B: Change to read, "Meetings may be conducted informally or according to Robert's Rules of Order at the discretion of the chairperson. A roll call will be taken in order to determine the presence of a quorum."
- ◆ **Extravaganza 2006**
  - John Moll agreed to arrange for Porta Pots and wash stations again.
  - The ideas of charging a flat fee for parking and charging a landing fee for participants were discussed. It was decided not to do either of these things.
  - We need to put a handout together that explains how donations to GSLMA are used to maintain the flying field.
  - Troy Von Kloha showed a "Build and Fly" kit for possible use at Extravaganza. He is now trying to find a sponsor who would supply these kits. Concern was also expressed over the need to use sharp tools to build these kits.
  - Whirley Birds expressed interest in running the food concession
  - To help recruit parking attendants, it was suggested that GSLMA treat each volunteer to a drink, burger and chips for an hour's work
- ◆ **Coming Event –** GSLMA has been asked to place six to twelve scale model aircraft in the Miniature Farm Equipment Show on Sunday, February 5, 2006 at the Holiday Inn on N. Lindbergh at I-70 from 9:00 AM to 3:00 PM. Anyone interested should contact Dave St. Clair (636-671-5353)

MEETING ADJOURNED: 8:20 PM

NEXT MEETING: Wednesday, February 1, 2006, at 7:00 PM at the Grand Glaize County Library, 1010 Meramec Station Road.