

# Carrier Wave

## January 2005

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

<http://phantomflyersrc.com>

CLUB OFFICERS	Work	Home	
President – Herb Johnson	777-7605	(636) 207-9895	Field Manager – By Committee
Vice President – Ed White	232-1479	(636) 441-6431	Chief Flight Instructor: Al Bone (636) 723-4062
Secretary – Mitch Galatioto	234-5141	(636) 447-5484	Activities Committee Chairperson: Dan Abel (314) 830-0138
Treasurer – Dan Sundman	777-9204	(636) 281-0676	
Safety Officer – Emery Kattelman		(636) 946-3511	
Boeing Rec Counselor – Larry Leuschke	234-5116	(314) 537-1472	

Board of Directors:	Work	Home	<b>Send Membership Renewals to:</b>
Phil Moore	(314) 777-4167	(636) 928-5342	Ed White
Ed White	(314) 232-1479	(636) 441-6431	10 Wolf Ridge Court
Jim Wortkoetter	(314) 233-0735	(636) 947-1034	St. Charles, MO 63303

<b>Send Newsletter Items to:</b>	Phone (Home) (636) 928-6501
EDITOR – Brian Kretchmar	Phone (Work) (314) 233-1952
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St. Peter, MO 63376	Email: <a href="mailto:briankretchmar@charter.net">briankretchmar@charter.net</a>



*From the 2004 Electric Fun Fly*

## Activities *(Dan Abel)*

Hello All,

It is time to start reminding everyone to put the monthly club meeting on your schedule. Due to the dates that the Sr. Center will be available to us we will be holding the club meetings on the **3rd Wednesday** every month this year rather than the 4th Wednesday. This will be true for the meetings during the summer at the field also. Trying to keep it consistent, all club meetings will be on the **3rd Wednesday** of the month. Now that you can figure the dates of all club meetings (**3rd Wednesday of the month**) we will have great attendance at all club meetings this year!!!!

The January meeting is next Wednesday, January 19, at 7:00 PM. at the Sr. Center same as last year.

Be sure to attend the club meeting and get the details about the annual swap meet. We have a great team of Captains over all areas of the swap meet. Find an area you can assist in and help make this the best swap meet yet.

See you at the meeting,

Dan @ activities

Bill Ahrens submitted the following photo:

### Phantom Flyers Christmas Party Flying!



## Meeting Minutes, November 30, 2004 *(Jan Jansen)*

Vice President Ed White called the meeting to order.

Secretary's report was presented and approved.

Treasury report was presented and approved.

GSLMA report. No report, meeting was next day.

Safety report – First Aid kit and book purchased by Frank Thomas was shown and accepted.

Field Managers report – Stolen equipment needs replacement. Stolen items: EZ-up tents 2, Grill, Weed trimmer and generator. Emery volunteered to look into replacements of the tents and grill. Old generator was ultra quite 700 watts, which is no longer in production. It was suggested to get a 1000 watts generator as the replacement to better run power tools.

Stolen items valued at \$ 1500. Insurance needs receipts.

Start-up benches will be stored in the container since they were discovered piled on top of each other on the field recently.

New locks have been installed on the container. All new locks and keys will be installed next season. Limited number of container keys will be given out.

Phil planned work party for the following Saturday.

Activity report – Dan Abel reminded everyone about the Christmas dinner.

Call went out for CD for the swap meet. Phil is a no go. (Since the meeting it has been decided to have captains for each function rather than having one person responsible).

Members were reminded of renewing their memberships. AMA membership verification is now on line so copies of your AMA card are not required.

Meeting adjourned.

From the 2004 Electric Fun Fly



# GSLMA MINUTES *(Submitted by Bill Ahrens)*

GSLMA MINUTES

December 1, 2004

MEETING OPENED: 7:00 PM

ATTENDANCE: Aero Pilots, Balsa Busters, Lone Eagles, Signal Chasers,  
St. Louis R/C

MINUTES: Approved as published

TREASURER'S REPORT: Old Balance \$5410.73      New Balance \$5645.23  
Buder Permits Issued in November - 24

## OLD BUSINESS:

- Election of Officers
  - ◆ A motion was made to retain the current President, Treasurer and Secretary for 2005. Motion carried.
  - ◆ Tim Storey and Bob Deadmond were nominated for the office of Vice-President. The vote was a two to two tie with one abstention. The vote will be repeated in January.

## NEW BUSINESS:

- Extravaganza 2005  
Steve Mizerany handed out a draft of a flyer for the Extravaganza giving essential facts about the event. The following are the key points from the discussion:
  - ◆ To insure the competence of flyers participating in the event, most felt that we should limit it to invited guests or certified GSLMA members for safety reasons.
  - ◆ The FlyBuder.com website will be modified to contain an Extravaganza Forum to facilitate communication of information.
  - ◆ Doctor Mike Reschak (AeroPilots) volunteered to serve as a Medic during the event.
  - ◆ The St. Louis Rocketry Association volunteered several of its members to work in any capacity needed to support the event.
  - ◆ GSLMA member clubs will prepare club information handouts to advertise to perspective members.

MEETING ADJOURNED: 8:05 PM

NEXT MEETING: Wednesday, January 5, 2005, at 7:00 PM in the East Room of St. Louis County Library on Lindbergh Blvd.

## **Washout: advantages and disadvantages** *(Reprinted from the AMA National Newsletter – January)*

"Every airplane needs washout, even a biplane," said Claude McCoullough, the famous designer for Sig.

I'm not sure that every airplane needs washout, but most do, especially the scale airplanes that Claude designed. Washout is a twist in the wing from root to tip. This twist is usually three degrees but in rare cases can be more.

Washout forces the wing near the fuselage to meet the air at a more positive angle than the tip. As the model pulls its nose up and increases the overall angle at which the wing meets the air, it will eventually achieve the stall angle at which lift ceases.

With washout, the inner wing will stall first and gradually progress towards the tips. This is desirable because the loss of lift at the center will lower the nose and prevent further stalling. Meanwhile, aileron control is maintained even though the wing is partially stalled.

But there's much more. Consider the typical World War II fighter. A fighter will have a wing incidence at the root of about 2-degrees and a washout of about one and a ½-degree. At top speed, the incidence angle of the tip is 0-degrees. Drag at the tip is minimized and there is very little loss of lift by air creeping around the wingtip—very efficient for maximum speed. In addition, the up-going aileron causes the same drag as the down-going aileron, so that roll causes no yaw. Yawing with the rudder does not change the lift at the tips, so yaw does not induce roll. This is just what the fighter pilot needs for gun aiming, and what the modeler needs for precise scale flight.

Washout is a must in airplanes with long, thin, or pointy wings. Some can't fly without it. Next time you are at the airport, notice the washout of the airliners there. It's huge for safety and fuel efficiency.

Most biplanes don't need washout because one wing is typically set at a higher incidence angle, and one wing will stall before the other. Ailerons must therefore be on the wing with the lower incidence angle.

Washout has a dark side; it can interfere with aerobatic performance. In inverted flight, washout becomes washin and all the bad things that washout prevents in upright flight become worse in inverted flight. Snap rolls and spins, which require the wing to stall on command, can be difficult to start and control. Adverse yaw varies with airspeed. Scale models of fighters are only mildly aerobatic. Fully aerobatic airplanes generally do not include washout.

Summary: Washout improves aileron response at all airspeeds, reduces adverse yaw and softens the stall, but only in upright flight.

from Flare-out  
Twin City Radio Controllers  
Jim Cook, editor  
Minneapolis NM

Same  
Location as  
Last year

Over 20,000 sq ft! Of RC Items

# R/C EXPOSITION



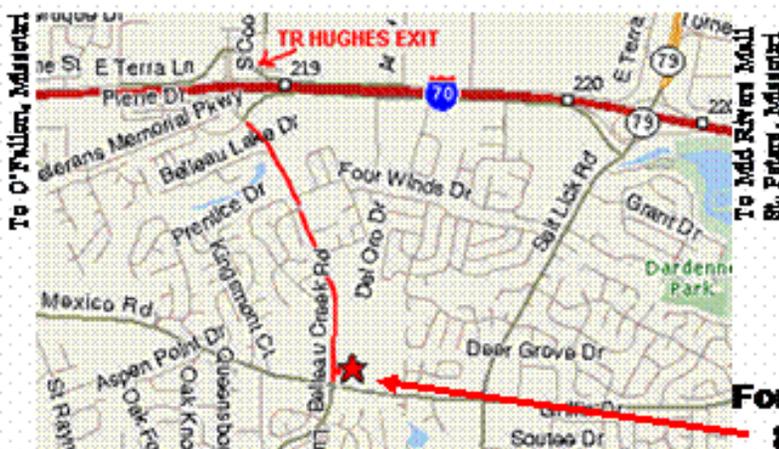
## & Swap Meet



At Fort Zumwalt South High School

**SATURDAY - MARCH 19, 2005**

Expanded Format: Airplanes, Boats, Helicopter, and Cars!  
Fly an R/C Flight Simulator! Watch Action Videos! Enjoy Static Displays!  
Learn about the hobby! Talk to St. Louis Area Clubs!



Directions:  
I-70 to  
T.R. Hughes Rd Exit.  
Follow Belleau Creek  
Rd. South  
1.1 miles.  
On left just prior  
to Mexico Rd

Fort Zumwalt South HS  
8050 Mexico Road  
St. Peters, MO 63376

**!!!!SUPER RAFFLE PRIZE!!!!**

**(No Sales In Parking Lot Allowed)**

General Admission: \$5.00 – Children under 10 Free

**GENERAL ADMISSION OPENS AT 10:30 AM**

**General Admission – Free Tables as available**

*(Admission closes at 2:00 PM)*

*Business Tables see <http://phantomflyersrc.com/swap.gif>*

**Public Table Sales 10AM**

**\$10 for a 5' round table includes 1 admission**

*(first come first served)*

Presented by:

Phantom Flyers R/C Club & Spirits of St. Louis R/C Flying Club

CONTACTS: Larry Leuschke 636-537-1472

Email @ [swap@5@phantomflyersrc.com](mailto:swap@5@phantomflyersrc.com)

See <http://phantomflyersrc.com/swap.htm> for latest details

Reference <http://spiritsofstl.com>

On-Site Concession Stand

Same  
Location as  
Last year

## **FOR SALE**

### **SIR LANCELOT (FANDANGO)**

READY TO FLY - (EXCEPT FOR RADIO EQUIPMENT)

**ENGINE:**

OS MAX SF 61

(SOME ENGINE REAR EXHAUST RETAINER DAMAGE - FULLY FUNCTIONAL)

**63 INCH WING SPAN**

FLAPS

PRICE: \$89.00

NOTE: BUILT BY ED HENRY

CONTACT: WILL FELDMER

[WIL1@NETZERO.NET](mailto:WIL1@NETZERO.NET)

314-381-7371



## BOEING EMPLOYEES' RC MODEL AIRPLANE CLUB

### 2005 MEMBERSHIP APPLICATION

Submit form and membership dues to:  
 Ed White,  
 10 Wolf Ridge Court  
 St. Charles, Mo. 63303  
 (636) 441-6431

**Membership Type and Fee:**

Regular/Retired            \$50/year x \_\_\_ yr(s) = \_\_\_\_\_  
 Family (IRS Dependents)    \$55/year x \_\_\_ yr(s) = \_\_\_\_\_  
 Auxiliary (see below)       \$50/year x \_\_\_ yr(s) = \_\_\_\_\_  
 Nonparticipant/Co-Op       \$ 5/year x \_\_\_ yr(s) = \_\_\_\_\_

Select  
One

Note: All new applications received after 01 Jul of this year will receive next year's dues free.

\*\*\*\*\* Late Renewal Fee \*\*\*\*\*    \$15 fee \_\_\_\_\_  
 (Late Renewal Fee Required if member hasn't paid by 31 Dec of 2004)  
 Total Amount Due = \_\_\_\_\_

Make checks payable to:  
Boeing Employees' RC Club, Inc.

Eligible Member

Additional Family Member

Member Name (Name/Nickname)	_____	_____
AMA Number	_____	_____
Work Phone	_____	_____
Employee Number	_____	_____
Department	_____	_____
Mailcode	_____	_____
Home Phone	_____	_____
Street	_____	_____
City, State, Zip	_____	_____
Birth Date	_____	_____
Spouse's Name	_____	_____
Work E-Mail Address	_____	_____
Home E-Mail Address	_____	_____
Can Tow Mower? (Yes/No)	_____	_____
Can Now Flying Field? (Yes/No)	_____	_____
Radio Frequencies (List all you use)	_____	_____

**Auxiliary Member Only: (\$50 each Auxiliary Member)**

Qualification: \_\_\_ Immediate Family Member\*    \_\_\_ Former Boeing Employee\*\*

\*Please indicate relation to member \_\_\_ Parent \_\_\_ Sister/Brother \_\_\_ Non-Dependent Child

If immediate family member, please

indicate the sponsoring qualified club member: \_\_\_\_\_

\*\*Former Boeing Employees are defined as those who either voluntarily terminated their employment or individuals who were previously employed by the company and terminated as a result of reduction in force. In addition, they must have been employed by the company and been active members of the club for which they are seeking associate membership for a minimum of 3 consecutive years immediately prior to their application for associate membership.

*For Club Administrative Use Only*

Dues Received \_\_\_\_\_ Date

Current AMA Received/Shown \_\_\_\_\_ Date

*My signature below signifies that:*

*I have read, understood and will abide by the Phantom Flyers R/C Safety and Field Use Rules.*

*I understand that my participation in this activity is purely voluntary and I agree to hold Boeing harmless for any and all liability for any injuries including death, which I might sustain while participating in this activity. This release will not affect any benefits to which I am entitled under the Boeing benefit plans.*

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Boeing Employees RC Model Airplane Club  
c/o Brian Kretchmar  
12 Pin Oak Court  
St. Peters, MO 63376