AMA Club # 393
Phantom Flyers RC Club
St. Charles, Mo

Newsletter of the Phantom Flyers R/C Club http://phantomflyersrc.com

CLUB OFFICERS	Home
President – Ed White	(636) 441-6431
Vice President – Herb Johnson	(636) 579-8062
Secretary – Jim West	(636) 922-1220
Treasurer – Jim Greenwood	(636) 577-0569
Safety Officer – Dave Evans	(636) 448-4800
Field Manager – Don Grzina	(314) 409-4771
Chief Flight Instructor - TBD	
Activities Committee Chairperson - TBD	

Send Membership Renewals to:
Jim West
9 Teak Court
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Board of Directors:	Work	Home
Ed White	(314) 232-1479	(636) 441-6431
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Send Newsletter Items to:
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March 2014

Upcoming Events/Important Notices

17 March, Club Meeting @ Mark Twain Hobby
21 April, Club Meeting @ Mark Twain Hobby or Field???
Indoor Flying, Every Friday Night, 9 pm to 11 pm
Tri-County Sports Center in Moscow Mills

Articles, pictures, and tech notes for publishing in the Carrier Wave are always appreciated. Please submit articles a week and a half before the meetings. Please send pictures, preferably in JPEG format, in separate files from text files. Text should be in MS Word format, simple text file format, 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.

Phantom Flyers Club Meeting Minutes – February 17, 2014

President Ed White opened the meeting at 7:05 pm. There were 15 members present including new member Walter Rhodes.

Tech Session: There was no tech session.

Secretary's Report: The minutes from the last meeting are published in the Carrier Wave. The minutes were accepted.

Treasurer's Report: Report was presented by Treasurer Jim Greenwood, and the report was accepted.

GSLMA Report: Herb Johnson gave the report and provided Buder Park Flying Permit forms for those that wanted to apply for a Buder permit. Buder permits are no longer free, and a minimum fee of $30 is required for the permit. Nearly 250 Buder permits were issued in 2013. There has been no recent activity at Buder because of the weather.

Field Manager's Report: No one at the meeting had been out to the field because of weather conditions. Runway and shelter roof will need the usual repairs after weather improves. The gophers are running rampant and will need dealing with.

Safety Officer's Report: There was no report.

Activities Chair Report: Ed would like someone to volunteer for the Activities position. He discussed the idea of night flying after club meetings at the field. It has been done successfully by some members in the past. He said big foamie models would work well. The indoor flying activity at Jeff City was mentioned also. Ed said the next indoor session is 8 March.

Old Business: There was no old business.

New Business: We are in the first year of our three year lease option. Ed is going to call a meeting of the Directors to discuss the lease status.

There was no further discussion, and the meeting was adjourned at 7:45 pm.

Meeting Minutes by VP Herb Johnson.

From Ed White, the Prez

At the November meeting we talked about maybe doing some ALES contests next year. ALES = Altitude Limited Electric Sailplane. Basically an electric powered glider with a small unit in between the receiver and the ESC. It measures altitude or motor run time and shuts the motor off (usually at either 200 meters or 30 seconds whichever comes first). In a glider contest everyone starts at the same altitude. Generally the units (there are a couple different types) are around $55-$65.

If anyone is interested these are on sale at HobbyKing USA warehouse for $40

http://www.hobbyking.com/hobbyking/store/uh_viewItem.asp?idProduct=51086&utm_campaign=060214USE&utm_content=92147503&utm_medium=email&utm_source=EDM

From Oskosh show in 2010.

GSLMA Meeting – Tuesday, January 7th, 2014

Location: Grand Glaize Library Branch

Notes by: Jeffrey C. Young

Meeting called to order: 7:15pm

Roll Call.

December minutes read. Motion, second, and passed.

Treasures Report:
BB: $14,963.92
Total Deposits: $1,233.25
Deposit Lions Club Food: $193.25
Total Debits: $120.00
Debit Port Potty: $80.00
Debit Room Rental: $40.00
EB: $16,077.17
Motion, second, and passed.

Buder Park Permits:
Permits YTD 2013: 246
Permits 2014 12/01/13 to 12/31/13: 32
Permits 2014 YTD: 49

Old Business:
- Look at raising pilot stations and painting.
- Fence not complete and waiting for better weather.

New Business:
- Treasury end of year report read. See attached.
- Boy Scout Flight Bench Update – working on prototype and having to make a few changes. Will have (3) new benches in spring.
- Discussing what it would take to bring power to pavilion – will try to have info at next meeting.

Meeting closed 8:06pm

GSLMA Meeting – Tuesday, February 6th, 2014

Location: Grand Glaize Library Branch

Notes by: Jeffrey C. Young

Meeting called to order: 7:02pm

Roll Call.

January minutes read. Motion, second, and passed.

Treasures Report:
BB: $16,182.17
Total Deposits: $1,274.00
Total Debits: $80.00
Debit Port Potty: $80.00
EB: $17,376.17
Motion, second, and passed.

Buder Park Permits:
Permits YTD 2013: 246
Permits 2014 01/01/14 to 01/31/14: 59
Permits 2014 YTD: 91

Old Business:
- Weather too bad to look at raising pilot stations and painting.
- Weather has delayed finishing fence project.

New Business:
- Field reservations accepted. Jon requested cost for field rental for extravaganza – has not received costs at this time.
- Taxes – IRS has assigned a specialist to determine if GSLMA qualifies for tax except status. They will contact us when they have determined the status.
- Eagle Scout Project – Micah Hung assembled (4) benches for GSLMA and they turned out great! Big thanks to those who donated supplies. Big thanks to Schafer's Hobby for their generous donation.

Meeting closed 7:25pm

How to Bend Balsa

Paul L. Daniels (pldaniels.com) printed in the newsletter of the Feather River RC Modelers, Oroville CA

Quite frequently in building with balsawood we need to bend balsa into a curved surface. For curves with fairly large radii, this can be done without any problem. When it comes to convincing balsa to bend around complex, varying, and tight curves (such as tail planes or wingtips), balsa has to be assisted into making these curves without crimping or snapping.

The reason why we choose to bend balsa around such curves is for a couple of reasons:

- Strength: Balsa is strongest when the grain runs the length of the wood.
- Finish: Sanding with the grain produces a smoother surface.
- Economy: It's cheaper to make a wingtip out of a strip of balsa than to use up a much larger sheet of balsa and having to discard the bulk of it.

The available methods of getting balsa to bend more can be broken down into sections: laminating, one-sided moisture/heat, chemicals, long soak.

With all bending operations it's suggested that you start out with the most flexible piece of balsa that you can obtain, typically this is referred to as A-grain balsa. Do not attempt to use C/quarter-grain balsa as it'll tend to split very quickly.

Stage 1: Getting the wood flexible

Laminating: The process of using laminating to make balsa curve around corners is based on the principle that a thinner sheet of balsa can be curved at a tighter radius. The radius of curvature limit varies between materials, but essentially it represents a percentage of compression (or tension), caused by the difference in curve radii between the inner and outer limits of the balsa. Thinner balsa will be able to be bent tighter before the same critical difference of curvature occurs.

Using the laminating process can be a fairly tedious one, but it does produce an appealing (to some) visual appearance. Laminating produces the strongest, but also heaviest, resulting form.

One-side moisture/heat: If you take a sheet or strip of balsa and dampen one side you'll see that in a few seconds that the balsa starts to curve away from the dampened side. Conversely, if you apply a hot iron to the sheet of balsa, the balsa will curve toward the heated side. The reason why this occurs in both cases is because of a difference in moisture content in the balsa wood cells. The more moisture in the cell, the more it expands.

In the damp application, the damp side of the balsa expands causing the sheet to curve away. With the iron application, the moisture is driven out of the balsa cells on that side to contract and causing the balsa to curl in.

Chemicals: Sometimes you really need to get a piece of balsa around things are already too thin for laminating practically—the solution can sometimes be to chemically adjust balsa to bend. Clouded ammonia (water with ammonia in it) or Windex will make balsa especially flexible. The action by which this occurs is the breaking down of balsa cell walls. Interestingly some people have reported that using vinegar also works, the key appears to be to soak the material in a non-neutral pH substance.

For clouded ammonia, use a 50/50 mix with water. Caution: use this mix in a well-ventilated area. Ammonia can suffocate you. If you would rather not take the potential risk, consider using the long-soak method.

Long soak: If using chemicals such as ammonia or vinegar isn't your idea of a pleasant experience, you can soak the balsa in hot/warm water for an hour or more (depending on the thickness). The heat is useful to accelerate the absorption of the water into the cell structure.

Stage 2: Setting the shape

Once you've made your balsa flexible, you can commence to shape it to your needs. For simple curves, such as cylinders, cones and such, you can simply apply the wood to the formers or suitable shape holder (having a good selection of tins, tubes, and rods help here) and tape/hold the balsa to the required shape and allow to dry.

Even if you're using the framework itself to form the curve, do not attempt to glue the balsa at this stage. Wet balsa and glue do not work together. Wait until the balsa is completely dry. Be forewarned that this sometimes can take a day or two in the cold weather. When you remove the balsa from its former shape holder, you'll notice that it tends to spring back a little bit, that is okay, it's normal. You can now glue your balsa to the airframe. ✈

Again from Oskosh 2010, not model airplanes as you might guess...

Midwest Air Wing RC Club

Swap Meet

Saturday, March 29, 2014

Granite City Township Hall
2060 Delmar Ave. Granite City, IL 62040
Buy – Sell – Trade

Radio Control Airplanes, Helis, and More

New and Used

Admission $5 (kids under 12 free)
Tables $10 each
Sellers enter at 8:30 am
General Admission 9:00 am – 12 pm
Door Prizes – Raffles – Concessions Available

Visit the club's website for complete and up to date information

midwestairwingrc.com/events

Chris Spohr (618) 917-0739 or Jim Holt (618) 975-4405