

THE CARRIER WAVE

PHANTOM FLYERS R/C CLUB



AMA #393 SAINT CHARLES, MO

July 2021

Newsletter of the Phantom Flyers R/C Club

<http://phantomflyersrc.com>

CLUB OFFICERS

Contact Number

President - Bill Ahrens	(314) 913-3819
Vice President - Dan Dierking	(314) 406-4949
Secretary - Ed White	(636) 219-2255
Treasure - Jose' Espinosa	(636) 947-6067
Safety Officer - Dave Evans	(636) 448-4800
Field Manager - Don Grzina	(636) 233-0193
Chief Flight Instructor - TBD	
Activities Chairperson - Ed White	

Send Membership Renewals to:

Ed White

10 Wolf Ridge Ct

St Charles, MO 63303

Board of Directors:

Work

Home

Ed White	Retired (B-)	(636) 219-2255
Dan Sundman	(314) 749-4029	(314) 749-4029
Mitch Galatioto	Retired (C+)	(636) 734-6322
Dave Evans	Retired	(636) 448-4800

Minutes of the Phantom Flyers RC Club meeting on 17 May 2021

The May club meeting was held via Zoom due to bad weather. The meeting was recorded and is available to any club member upon request. President Bill Ahrens chaired the meeting. Ten members were present.

Minutes of the April club meeting are approved as published. [Thanks to Jim West!]

Bill Ahrens conducted a Tech session on his doomahickey. He called it that 3 times so that must be the correct nomenclature? You'll have to get the Zoom meeting recording to learn more than that.

Treasurer's report. The club is in pretty good shape financially. The report was approved as presented.

Field Manager's report. The re-engined Zero turn mower runs better. Motor is 20 years younger than the one it had. Don will put oil change on his list. A new battery was put in the green mower. Both mowers will start without any drama or recharging. Don will need to reissue mowing schedule. Only one case of unauthorized use of the field. Somebody used something? as a target on the runway for shooting. Rebuilt starting stands look really nice. Used PVC sheet material. Many thanks to Don G, Dan D and Jose! Field Managers report was approved.

Activities. June 5 Fun Fly needs a CD. Chris Sostman has a previous commitment and will be unable to CD. Open house this coming weekend. Next will be EDF time trials. Swap Meet had a great turnout. ~\$610 profit. Another successful event by Dan D Enterprises. Willie Hannah donated/cooked the food. Thank you Willie! The Innsbrook Float Fly has been canceled. Some discussion on possible Float Fly locations but none was identified other than Horseshoe Lake in IL. The Activities report approved.

GSLMA Report. Permits next year will be \$35. They will likely need to resurface the runway soon. Report was approved.

New Business - Darin at Mark Twain gave us \$100 of gift cards for the Open House.

Old Business - no old business

Motion to adjourn/seconded passed.

Ed White

Secretary, Phantom Flyers RC Club

Minutes of the Phantom Flyers RC Club meeting on 21 June 2021

The June club meeting was held at the field. Vice President Dan Dierking chaired the meeting. Six members were present.

Minutes of the May club meeting are approved as published.

Treasurer's report. The club is in pretty good shape financially. The report was approved as presented.

Safety Officers report: No formal safety officer report. No safety issues were raised.

Field Manager's report: Mowers are running well. We will look into renting a roller

Activities: Our Activities Chair, Chris Sostman has resigned. Ed White volunteered to finish out the year as Activities Chair. Dan Abel suggested we look into providing flight training sessions for Scouts, Church groups.

GSLMA Report: No report reviewed.

New Business: No new business

Old Business: No old business

Motion to adjourn/seconded passed at 7:17

Ed White

Secretary, Phantom Flyers RC Club

2021 July At the Field

Jose and I showed up at the field this month. My plan was to maiden my recently acquired Freewing T-45 Goshawk and Jose was practicing his landings. I had my camera with me so Jose used it to capture one of my flights





Li-Ion Packs the New Round Cells

I have been following a slow moving trend in RC electric aviation on the use of Li-Ion cells for flight packs. Li-Ions have some advantages over the current Li-Po packs but for me the robust nature and the potential increase of cycles before replacements. The downsides of these are the low available current discharge and you have assemble the packs.

When I started flying electric powered models, I would order my pre-assembled NiCad packs, much like we order our Lipo packs today. At times I had to order individual cells, aka round cells, and assemble packs for a particular configuration.

Fast forward to today and the cycle maybe repeating for me!

Batteries of choice are the Samsung 21700 40T 4000 mAh. The specs claim these are 35 ampere rated cells which could work well in parkflyers and drones. For my application, EDF (electric ducted fan) they will have to be put in parallel to achieve 70 amps.

I purchased battery holders off eBay to construct groups 6S packs. I also had to purchase balance leads for each pack. These first couple of packs will be tested as 6S/2P. That is a spec total of 70amp at 8000mAh but they can be briefly pushed to a higher current if proper cooling is available. It should be noted that with NiCad and NiMh, the cells layed next to each other. The holders for the Li Ion ensure the cells don't touch and this is important for cooling and cell longevity.





Although the thought of carrying around 12 cells in a model designed for 6 sounds heavy but Li-Ion packs configured in a 6S/2P 8000mAh weighed in at 2 pound. My Turnigy 6S 8000mAh 25C Lipo weighs in at 2 pounds 8 ounces and the RoaringTop 6S 5800 35C weighs in at 1 pound 11 ounces. Flight testing will start soon.

My ultimate plan is a 12S/3P configuration (12000mAh at 105amps) for a big model.

<https://www.18650batterystore.com/products/samsung-40t>

<https://www.buddyrc.com/products/12-6s-jst-xh-balance-extension-cable?variant=30274312110166>

[ebay battery holders](#)

Congrats to Jack Buydos!



Jack and Jose competed in a pattern contest held at Columbia, MO. Don Gzrnia was also present to perform support duties, that included calling maneuvers and aircraft retrieval. Great team work!

MOWING SCHEDULE as of 6/13/2021

**IF YOU ARE UNABLE TO MOW THE SCHEDULED WEEK,
IT IS YOUR RESPONSIBILITY TO SWAP WITH A REPLACEMENT.**

April				
2	9	16	23	30
		Jack Buydos	Jan Jansen	Jim West
		Don Grzina	Brad Young	Don Grzina
			Chris Sostman	Jack Buydos
May				
7	14	21	28	
Jim Alberico	Jose Espinosa	John Klein (a)	Bill McMenamy (a)	
Ed White	Willie Hinnah	Mitch Galatioto	Brad Young	
Keven Cox	Bill Ahrens	Jan Jansen	Chris Sostman	
June				
4	11	18	25	
Jim West	Bill McMenamy (b)	Jose Espinosa	Jim Alberico (b)	
Don Grzina	Ed White	Willie Hinnah	Mitch Galatioto	
Jack Buydos	Kevin Cox	Bill Ahrens	John Klein	
July				
2	9	16	23	30
Jan Jansen	Jim West	Jim Alberico	Jose Espinosa	Bil McMenamy
Brad Young	Don Grzina	Ed White	Willie Hinnah	Mitch Galatioto
Chris Sostman	Jack Buydos	Kevin Cox	Bill Ahrens	John Klein
August				
6	13	20	27	
Jan Jansen	Jim West	Jim Alberico	Jose Espinosa	
Brad Young	Don Grzina	Ed White	Willie Hinnah	
Chris Sostman	Jack Buydos	Kevin Cox	Bill Ahrens	
September				
3	10	17	24	
Bill McMenamy	Jan Jansen	Jim West	Jim Alberico	
Mitch Galatiota	Brad Young	Don Grzina	Ed White	
John Klein	Chris Sostman	Jack Buydos	Kevin Cox	
October				
1	8			
Jose Espinosa	Bill McMenamy			
Willie Hinnah	Mitch Galatiota			
Bill Ahrens	John Klein			

* Note: Weekend of the Phantom Flyers Pattern Contest; much preferred to be completed by sundown Thursday, Sep 24th. Additional volunteers for field prep will be greatly appreciated.

Phantom Flyers RC CLUB

(Be sure to explore our website: phantomflyersrc.com)

2021 MEMBERSHIP APPLICATION

- Regular \$150/year x ____ yr(s) = _____
 Family (IRS Dependents) \$155/year x ____ yr(s) = _____
 Non-Participant (Non flying) \$15/year x ____ yr(s) = _____
 Anonymous Donations Welcome

Note: All new applications received after 1 July of this year will receive next year's dues free

**** Late Renewal Fee **** \$15 _____

(Late fee required if member has not paid by 31 Dec)

Make checks payable to:
Phantom Flyers RC Club, Inc.

Total Amount Due = _____

	<u>Eligible Member</u>	<u>Additional Family Member</u>
Member Name (/Nickname)	_____	_____
AMA Number	_____	_____
Primary Phone (home/cell)	_____	_____
Secondary Phone (work/cell)	_____	_____
Street	_____	_____
City, State, Zip	_____	_____
Spouse's Name	_____	_____
Primary E-Mail Address	_____	_____
Can Mow Flying Field? (Yes/No)	_____	_____

My signature below signifies that:

I have read, understood and will abide by the Phantom Flyers RC Safety and Field Use Rules.

I understand that my participation in this activity is purely voluntary and I agree to hold Phantom Flyers RC Club, Inc. harmless for any and all liability for any injuries including death, which I might sustain while participating in this activity.

Signature: _____ Date: _____

Submit form and membership dues to:
 Ed White
 10 Wolf Ridge Ct.
 St Charles, MO 63303
 Please send S.A.S.E. if you want your membership card mailed

For Club Administrative Use Only	Dues Received _____ Date	Current AMA Received/Shown _____ Date
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<http://phantomflyersrc.com/>

<https://www.facebook.com/Phantom-Flyers-RC-Club-139791882811519/>

Check there for the back issues of the Carrier Wave Newsletter, mowing schedule, event calendar and club roster/contact information (handy for mowing).

Articles, pictures and tech notes for publishing in the Carrier Wave are always appreciated. Let us know what you are building, repairing or flying!

Send them to:

kevcox@charter.net