



# PROP WASH

September 2017 / Issue 9

## Last Meeting

Sept 21, 2017

Membership: 31  
In Attendance: \_\_\_  
Guests: \_\_\_

## Topics

New Members!  
Mower Repairs  
Mowing Schedule  
No Trespassing  
Field Observations  
Raffle  
Swap Meet / Classifieds  
Website  
R/C Boaters  
Congratulations, Evan!

## Tech Tip

LiPo Battery  
Performance  
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## Classifieds

Airplane for sale  
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## Upcoming Events

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## Next Meeting

Thursday  
Oct 19, 2017  
7:00 PM

@Marc's

Though we haven't seen the last of some nice flying weather, the waning daylight hours brought us back indoors for our club meetings.

Welcome **new members**, Dan Martinez and Dick Vernon!

Last month, the **John Deere** required another **repair**. This time, the belt shredded shortly into a mowing session. At this time, we don't know if it was defective, or if we have a severe pulley misalignment, but Bill replaced it. Jim Kingsley & Bob Reese reported it has since completed one mowing session without incident. Hopefully it survives many more! Bill also put a bottle of 30W oil in the shed, to be used in either mower if needed. If you do add any oil to the tractors, please let us know, as we monitor their condition.

The Wednesday **mowing schedule** has worked out well and we've maintained enough volunteers to keep the field adequately groomed each week.

Knowing that non-club members visit the area, to improve security, the shed and boat keys have been relocated to the Frequency Management Board box alongside the shed, since it has a combination lock on it. Bill also posted a **"Private Property" sign** on the big tree halfway down the access road, in hopes of discouraging trespassers. Though it's better than nothing, several members commented that it is easy to overlook, and most hadn't even noticed it.

Believed to be unrelated to trespassers, a few other **observations** were made by a member on the morning of Sept. 23rd. These included the shed being locked in the open position with the door slightly open, damaged linkage on one of the boat oars, and a missing 72 MHz frequency tag from the board. When at the field, please be mindful and responsible with club property. We understand that mistakes and accidents happen, and appreciate you report any issues you run into.

Jim Hawkins is in the process of getting our **raffle tickets** printed. It was decided to get 275 tickets, and to sell them at \$10 each.

After some discussion, we've decided not to collaborate with the *Westlake RC Club* on a **swap meet** this fall/winter, primarily due to logistical difficulties. I'm sure many of you were looking forward to a meet, as was I. Hopefully as our club continues to grow, we will garner enough support and confidence to host another swap meet next year. In the mean time, if you have something you want to sell, feel free to send me the details, and I will post it in a **classifieds section** of this newsletter. Remember, this is our newsletter, and we can make it whatever we want! Since I haven't received any submissions yet, I'll kick it off with something of my own this month.

We are still discussing how we wish to proceed with our **website**, exploring some different options. Most alternatives will cost a little more, but be easier to maintain from an editing and security standpoint. One member asked if it's worth our resources to keep the website active. I believe it has been beneficial in getting information to new and potential members, but that is hard to quantify at this point. So, it's a good question we should consider.

Jim Kingsley inquired about potential club membership for several **R/C boaters** that are interested in having access to the pond. Some of them also fly planes. Regardless, there was no objection to accepting them into the club if they wish to join, especially if they only operate electric craft. Marc mentioned adding different activities to spice up our winter meetings. Just a few suggestions include member tutorials, members sharing their latest project, or a mini swap meet. If you like this idea, have anything you'd like to share, or wish to offer more ideas, please let us know!

Lastly, a big congratulations goes out to our former club member, Evan Gaston. Earlier this month at FPV Fest in Willard, he qualified to participate at the 2017 *Mega Drone X* (MDX) race in Louisville, Kentucky in November. There is no other drone racing venue like it, staged in a subterranean cavern populated with lighted race gates that define the course. Among drone racing enthusiasts, this is a well-known event, with many industry professionals in attendance. But that's not all... He has also been accepted to represent ReadyMadeRC as a team pilot! Let's wish Evan a safe, enjoyable trip!



Our **next club meeting** is planned for **Thursday, October 19** -- 7:00 PM at Marc's.

Until then... Get out there and fly something, before it gets too cold!

Jeff Williams  
Secretary, LZRC



Find us on  
**Facebook**

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**Krueger Insurance Agency**

11418 Bellamy Rd.  
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## Tech Tip LiPo Battery Care



Last month I talked about LiPo performance. Now I'd like to follow that up with some ways to maintain their performance and longevity.

Our lithium polymer (LiPo) batteries have outstanding power density, providing an impressive output-to-weight ratio for our relatively light models. But this comes at a cost. They are more susceptible to degradation under a variety of conditions. Some of the most common ways LiPos are abused include...

**Exceeding the discharge rate.** Known by most as the "C Rating" of a battery, this relates to the amount of current (Amps) a pack is capable of delivering at any moment. If pushed beyond, pack temperature will quickly rise to destructive levels, permanently degrading the electrolyte and promoting internal corrosion, resulting in gassing/puffing and an increase in internal resistance (IR). These reactions are cumulative and decrease the performance and longevity of our batteries with each instance.

**Over-discharging.** It's also destructive to discharge a LiPo cell below its fully drained level, generally considered 3.2 volts. So, it's strongly advised not to even let them get close to that threshold. If drained beyond, permanent damage is likely.

**Improper storage level.** If you don't expect to use your pack for several days, you should not leave them fully charged. An engineer for the battery manufacturer, Revolectrix, succinctly sums up the reason as follows: "Storing at high voltage makes the electrolyte react with the cathode over time and pollutes the anode, which leads to higher internal resistance and loss of capacity. Why does this not happen to cellphones? Because the coatings of anode and cathode are thicker for low C-rate cells." Mid-charge (roughly 3.7V) is recommended for storage. For longer periods, this also should avoid self-discharging of the cells beyond the minimum limit.

LiPo batteries are not all created equal. Differences in chemistry and internal components play a major role in performance and robustness under a variety of conditions. Therefore, you may find that some brands don't hold up as well to aggressive use, or for more than a single season. But respecting the general limitations of our batteries can prolong the life of any particular pack you have, saving you money and frustration.

## Classifieds

### HiTec Weekender Warbird P-51D Mustang (PnP)



#### New in Box!

Attractive scale detail in a small package!  
Recently discontinued, but parts are still available.  
Same model was also sold under the "TopRC" brand



#### Just add a receiver & battery, and go fly!

29.5" wingspan, Assembled Airframe, Pre-Installed Servos, 1200KV Brushless Motor, 12A ESC

Requires: 4-ch Rx, 2S battery (~1000 mAh)

**\$60**

Contact: Jeff ([JeffreyWilliams@aol.com](mailto:JeffreyWilliams@aol.com))



## Upcoming Events

10/5/2017 - 10/8/2017

### Eagle Squadron Spookfest

Galion, OH

Site: Club Field

Norman Elliott CD

Visit: [EagleSquadronrc.com](http://EagleSquadronrc.com)

Gates open 11am Thursday  
\$3 Parking donation, \$10 pilots fee

Public welcome. Primitive camping. Food & drinks.  
Open flying, plane raffles, door prizes, night flying, foamy  
combat, RC paintball shoot



**GALION EAGLE SQUADRON  
SPOOKFEST**  
**2017 FALL FLY-IN**  
*October 5th - 8th*

*Come join the Eagle Squadron as we welcome the area's best RC pilots for a weekend of friends, food and most importantly, FLYING!*

*Pilot Fee \$10 for entire weekend • Spectator Parking \$3 Donation*

Light Towers for Night Flying  
RC Plane Paintball Shoot - Costume Contest  
50/50, Raffles and Door Prizes  
Food and Drinks Available  
Camping Thursday, Friday and Saturday, No Hookups  
1999 Fairview Road, Galion, OH 44833  
[www.eaglesquadronrc.com](http://www.eaglesquadronrc.com)

## Swap Meets

10/1/2017

### Corsair Model Aircraft Club

#### Swap Shop

Tallmadge, OH

Summit County Fairgrounds, 193 E Howe Rd.  
Madeline Bruemmer CD; [mbruemmer001@neo.rr.com](mailto:mbruemmer001@neo.rr.com)

9am - 1:30pm

Tables \$12, Admission \$3

Refreshments available

10/14/2017

### Cleveland Radio Controlaires

#### 6th Annual Swap Meet

Mentor-On-The-Lake, OH

7779 Lakeshore Blvd.

Timothy Kearns CD; [tkearns4@aol.com](mailto:tkearns4@aol.com)

Visit: [geaugarc.com](http://geaugarc.com)

9am-Noon

\$5 admission

Refreshments & hot food. Free parking. 50/50 raffle.

80 tables: \$17 per table (\$12 before Oct. 1)

Table setup 8-9am, Tear down at Noon

10/21/2017

### Columbus Aero RC Annual Swap Meet

Grove City, OH

Grove City Church of the Nazarene, 4770 Hoover Rd.

Earl Davis CD; [edavis20@columbus.rr.com](mailto:edavis20@columbus.rr.com)

Visit: [columbusaerorc.org](http://columbusaerorc.org)

Tables \$10. Gen. Admission \$5