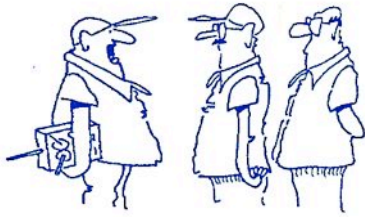


Just PLANE Talk



Official newsletter of the
Mid-State Aeroguidance Club

307 W. 5th St.
Marshfield, WI 54449
AMA chartered club #1098
Since 1973



July 2017

A few words from the editor

President

Tony Lewis
715-506-0886

Vice President

Steve Sanford
715-207-0262

Secretary

Jim Rasmussen
715-387-6561

Treasurer

Sandy MacDonald
715-387-4712

Safety Officer

Rod Seehafer
715-252-8591

Newsletter editor

Jack Walden
715 715-384-5658



It's that time of the Summer when we begin to talk about our annual fun fly. This was done at our June meeting to which we had a tremendous turn out.

This was possibly because it was a lovely evening, any way we had about 22 people present. Many items were discussed under the leadership of our Vice President **Steve Sanford** with the most important one being our fun fly. As in the past, the food tent was the most discussed item, with many ideas as to how the service could be provided. In the end, Steve Rued-Clark said he and his wife would take care of the food stand. Both of them were volunteers at our brat stands in the past. Thank you Steve for stepping up.

The meeting was followed by many members flying with the **Hastreiter** family winning the award (if we would of had one) of flying the

latest in the evening. I feel they all must have "Owl" eyes to see the planes in the setting sky.

I've been encouraging everyone to read their *Model Aviation* magazine and the July edition is no exception in that the theme is the "How-To" issue. It has lots of interesting suggestions and articles. In addition to this you should receive helpful e-mails from the AMA. If you take time to read these you can see that you get more than liability insurance from your dues.

Don't forget the meeting on Monday night at 6:30. we have a lot to talk about as we finalize plans for our fun fly on Saturday August 5th.

Hope to see everyone at the meeting.

Jack

Visit The Club Web
Site At:

<http://www.msaero.com>

Prez sez:

Tony Lewis



Summer is in full swing and hopefully all of you are finally getting some flight time logged. There have been several of us that have been trying to make the Monday night club night work despite the wet weather. We have been lucky enough to catch some good flying conditions after patiently waiting out the wind and rain. We have been flying a number of combat matches these evenings and it is proving quite fun and entertaining. If you are at all interested, the plane combination we picked is quite affordable and durable and makes a good sport model if you decide not to do the whole combat thing. We are but a month away from our annual fun-fly. This is always

scheduled for the first Saturday in August. **Mark Kwarciany** and his wife **Susan** have manned the food concessions the last few years and thank you again for taking charge and managing that. It is a big job. **Steve** and **Chris Rued-Clark** have volunteered to take over the food stand this year and thank you for taking over. But we will still need several other people to help out with set-up, registration, raffle tickets, etc. Please start thinking about some tasks you would be willing to help out with. The more help we have, the more we can split up the work shifts and then everyone can enjoy some flying time during the event as well.

Happy Landings.

Tony

Upcoming Events

Rhinelanders *July 8th, 2017* Fun Fly by Northwoods RC Flyers
John Wich CD 7715282 5025

Durand WI-Western Wisconsin Modelers Association (WWMA)

WWMA Dawn Patrol Sat *September 23, 2017*
WWMA Western Wis RC Scale Contest *July 22 and 23, 2017*
WWMA RC Swap Meet Sunday *October 8, 2017*
WWMA Warbird and Vintage Aircraft *August 25th, 26th, 27th 2017*

Wausau Sportsmen RC Club Fun Fly
August 12, 2017 Robert Weller CD 715-842-1755

Oshkosh EAA AirVenture
July 24-30 Oshkosh WI Navy Blue Angels performing in Friday and Saturday air shows

Mid-State Aeroguidance Club Marshfield WI
August 5th Fun Fly Jim Rasmussen CD 715 387-6561

Li-poly battery basics

The popularity of electric powered aircraft has soared (pun intended) over the past few years. Part of the reason behind the recent popularity has been the advent of Lithium Polymer or Li-Poly batteries.

Li-Poly batteries pack a high energy-to-weight ratio when compared to their Ni-Cad and NiMH battery cousins. This stored energy has good and bad potential, and we will touch on both here.

Li-Poly battery cells are 3.7 volts, as compared to Ni-Cad and NiMH batteries which are 1.5 volts per cell.

When Li-Poly batteries are wired in parallel, they do not discharge like other batteries. In addition, when you wire cells in parallel, each cell only sees half the total current, or amp draw.

Total current is very important for Li-Poly batteries and is identified with a C rating. You may see Li-Poly batteries advertised as 3C, 6C, 8C, 10C. This means that a 3C 1500 mAh (1.5 amp) Li-Poly battery pack should never be discharged at a rate higher than 3 x 1500 mAh or 4500 mAh (4.5 amps).

Discharging a Li-Poly beyond this rating could cause damage to the cells or even fire. A very serious concern.

Changing a propeller on your airplane can change the current draw and cause higher than expected discharge rates. So it is beneficial to have a current meter on hand. The manufacturer's specifications for the motor, speed control, and propeller combination you are running also come in very handy.

The other letters on Li-Poly packs refer to S for serial wiring of cells and P for parallel wiring of cells. A 3S pack would be 3.7 volts x 3 cells = 11.1 volts. A 3P pack would mean three parallel cells, or 3.7 volts and a higher C rating.

A 3S 3P pack would have 3 cells in serial (11.1 volts) and 3 cells in parallel.

Li-Poly batteries also do not require cycling, or discharging like other batteries. In fact, you never want to cycle down Li-Poly batteries. You should always leave a partial charge, to avoid damage.

Chargers and speed controls should always be rated for Li-Poly use. Do not attempt to use your Ni-Cad or NiMH equipment. An improper charge rate could cause a Li-Poly pack to explode and burn at over 2000 degrees. A non-Li-Poly rated speed control could cause over discharge and cell damage.

Here is a list of do's and don'ts for your Li-Poly packs:

1. Never put your Li-Poly packs in water and never put water on the packs.
2. Don't leave your Li-Poly batteries unattended while charging.
3. See www.modelaircraft.org for this year's list of people whose cars and houses have burned down while leaving packs unattended during charging.
4. Don't puncture or short out LiPoly batteries.
5. Don't fully discharge your LiPoly packs, as this will damage the cells.
6. Don't put the Li-Poly battery in your car, or leave it in your airplane after a crash. If the battery is damaged internally, you may not notice. According to the AMA, several members' cars have already burned up this year due to this scenario.
7. Do use common sense and respect the energy that is stored in that little package.
8. Do follow all manufacturer ratings and specifications for use and storage. Do store your Li-Poly packs in a fire-proof container.

Shawano R/C Flying Club

Radio Controlled Air Plane Show and Fun Fly

Saturday July 15, 2017

8:00AM. - 3:00PM.

Burgers, Brats, & Soda, Available all day

Open to the Public Spectators are FREE

AMA Chapter Club #893

shawanorcflyingclub.net

This is a **Class C Sanctioned event**



- *AMA membership required for Pilots
- * FAA Registration required for Pilots
- * Safety inspection required
- * 210' x 690' mowed and rolled fieldFlying Field
- * No flying obstructions
- * Pilots fee: \$5.00
- * Transmitter Impound for 72 mhz radios only
- * flying open to all aircraft

Take Hwy 29 to the exit for Hwy22. Go south about 1.5 miles. Recreation area on the east side of the road. Drive in the orange gate and follow the road back. Club sign by the road also.

For Information

Contest Director: Dave Roebke
newultraflyer@gmail.com

Club President John Gooding
jgooding@charter.net

Secretary- Blair Johnson
bjohn2469@hotmail.com

Club Treasure-Jim Vanderwalker
jimmyr2@charter.net

Safety & VP Bob May
bbmay@frontiernet.net

J & J Games
 Marshfield Mall - 503 E Ives St. #205 - Marshfield, WI 54449
 715-207-0633

STAR WARS X-WING	MAGIC The Gathering	HEROIC AGE
Force of Will	FNM Friday Night Magic Every Friday Night - 5:30pm Standard Format \$4.00	PATHFINDER
MUNCHKIN	DUNGEONS DRAGONS Books - Dice - Miniatures	BOARD GAMES Risk Axis Allies MONOPOLY & Many More!

- HOBBY -
Rockets - Paints - Models

- RC -
TRAXXAS **ARRMA** **DROMIDA**
Cars - Quads - Helicopters - Planes - Boats

HILLER'S
 Help Is Just Around The Corner™
 751 S. Central Ave.,
 Marshfield • 384-9101
 Hours: Mon.-Fri. 8-8;
 Sat. 8-5; Sun. 9-4

True Value. Just Ask.
RENTAL

 **Just PLANE Talk**
 Mid State Aeroguidance Club
 AMA CHARTER #1098

M 538 Cayman St
 Marshfield, WI. 54449
 Jack Walden, Editor

CLUB MEETING:
Monday, July 3, 2017 at 6:30
PM
AT THE Field

Address correction requested

