



<http://marionrcflyers.org>

**MRCF**

**PO Box 9202**

**Rochester, MN 55903**

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Editor: Wayne Brown

### **Club Officers 2017**

**President:** Wayne Brown (507) 319-4406

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**Vice President:** Dallas Gardner (507) 867-4269

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**Safety Officer:** Bernie Drier (507) 288-1231

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**Field Maintenance:** Jeff Sorenson (507) 545-3924

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**Flight Instructor:** Ray Dray (507) 261-0930 cell

[rjdmjd56@gmail.com](mailto:rjdmjd56@gmail.com)

**Program Chairman:** Jim Macius (952) 215-2430

[jim@macius.com](mailto:jim@macius.com)

**Club Dues Now Being accepted at the Club meetings or send your dues to:**

**Marion RC Flyers  
PO Box 9202  
Rochester, Mn 55903**

**Adult Membership \$50.00 per year**

**Family (Spouse) Membership \$75.00 per year**

**Student (19 years of age or under) \$1.00 per year**

***Indoor Electric Flying Schedule:***

RCTC Field House: Tues. starting at 10pm

**\*\*\*\*\*Winter Club Meetings second Tuesday of the month \*\*\*\*\***

**Meetings switched back to the second Tuesday of the month.**

**2017 Winter Club meeting Schedule:**

**The winter club meetings are held the second Tuesday of the month and will be held at the Bowlocity Entertainment Center 2810 N Broadway, Rochester, MN (former Recreation Bowling Alley) starting at 7:00 pm. Enter through the west doors parallel to North Broadway and the large meeting room will be the 2nd door to the left inside the building.**

**2017: Jan 10th; Feb 14th; Mar 14th; Apr 11th; May 9th.**

**Summer meeting schedule for 2017 will resume on June 14th.**

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**Wayne's Corner....**

Club Officers for 2017 are as follows:

President:	Wayne Brown
Vice President:	Dallas Gardner
Treasurer:	Judi Snyder
Sec/Newsletter:	Wayne Brown
Safety Officer:	Bernie Drier

***Clyde Norell*** hinted that he was going to bring in his Piper L-4 for Show and Tell at the January meeting. Clyde is in my opinion a master builder.

*TCRC 41<sup>st</sup> Annual Auction February 4, 2017*

<http://www.tcrconline.com/pages/auction.htm>

[http://www.rcuniverse.com/magazine/article\\_display.cfm?article\\_id=1092](http://www.rcuniverse.com/magazine/article_display.cfm?article_id=1092)

*Dallas Gardner* brought in to show us four handmade clocks he put together for giving to the family for Christmas. Every clock is made out of a different wood.



\*\*\*A group of us meet every Wednesday around 11:00 am for lunch. It is always a fun time for good conversation. If you would like to join us let me know. I can add anyone who would like to my weekly email of where we will be eating that week. We try to go new places when we can.

**The Student Flight Instruction Program will resume June 2017 and continue through September 2017.**

**Beginner's Night: Wednesday afternoons/evenings will resume June 2017. Contact our qualified Flight Instructors for free flight instruction. It is recommended that you make an appointment with Ray Dray or Skip Gram for flight instruction.**

**Call Ray Dray at (cell) 261-0930 or (home) 775-6933.**

**Call Skip Gram at (507) 273-2748**

## **Student Flight Instruction Program**

Student flight instruction is provided free of charge during the flying season, June through September, by one of our qualified flight instructors.

- Please call Ray Dray at 261-0930 (cell) or 775-6933 (home) or Skip Gram at 273-2748 to set up an appointment for flight instruction. They can answer any questions you might have.
- You should read and understand the club rules that are posted online and at the field. If you have any questions have your instructor clarify them during the first flight lesson.  
[http://www.marionrcflyers.org/index.php?option=com\\_content&view=article&id=20&Itemid=16](http://www.marionrcflyers.org/index.php?option=com_content&view=article&id=20&Itemid=16)
- Please call our club instructor to make an appointment for flight training. This will assure that there will be somebody at the field to assist you.
- After completing your lessons you will need to join the AMA and our club to be allowed to fly at our club field. Join the AMA at <https://www.modelaircraft.org/joinrenew.aspx>. To join our club, contact Wayne Brown at 319-4406. Our membership forms can be found in the New Pilot Info link to the left.

The available instructors are listed below:

Instructor	Phone Number	Special Information
Ray Dray	261-0930 cell 775-6933 Home	Airplane Instruction
Skip Gram	273-2748	Airplane Instruction

- If using your own airplane for flight lessons you should make sure your radio equipment has been charged and the switches are in the off position before you arrive at the field. If you do not own your own airplane you can use the club training aircraft at no charge to you.
- When you arrive at the field ask for your instructor. He will provide direction on where and how to set up the airplane for instruction.
- Pay attention to what your instructor has to say and show you. He will show you proper flying field procedures and etiquette. You can learn by observing how pilots set up and fly their aircraft.
- Relax and take your time. If you feel tired or worn out call it a day and schedule a lesson for another day. When learning to fly it may take more lessons than expected.
- When your instructor says you are ready you will complete a check flight, where you will be asked to do three takeoffs and landings, demonstrate the correct pattern and flying field etiquette. After successful completion you will then be considered a qualified R/C Pilot and allowed to fly solo without an instructor.
- You can request additional lessons at any time. These can include aerobatic maneuvers.

## ***Meeting Minutes from December 13, 2016***

***Call to order:*** President Wayne Brown commenced the meeting at 7:00 pm.

***Officers present:*** Judi Snyder, Wayne Brown, Bernie Drier, Dallas Gardner

***Members present:*** (Includes the officers)

***Treasurer's Report:*** All accounts in good standing.

### ***Old Business:***

- Voting for club officers. President Wayne Brown. Vice President Dallas Gardner. Treasurer Judi Snyder. Sec/Newsletter Wayne Brown. Safety Officer Bernie Drier. Unanimous vote for all candidates.
- ***New Business: None***
- ***Adjourn: 7:15 pm***

### **Show and Tell**

***Dallas Gardner*** brought in a new Zulu EPO kit he had built. It has "Drooperons". He added electric power system to the Zulu.

The Zulu is a very unique plane that features "Drooperons" on the leading edge; these provide much improved lift and aerobatic capabilities that you have to fly to fully appreciate! Thanks to the drooperons and the overall design the Zulu is hard to classify, it is a slope glider, a thermal glider and can also be electric powered.



- DESCRIPTION from the Aloft Website <http://aloftobbies.com/zulu-epo-kit.html>
- How can I explain the Zulu? First I should tell you this is a glider that has some very unique flight surfaces. The Zulu incorporates "drooperons" on the leading edge. These surfaces are the key to the wide flight envelope and smooth aerobatics. While drooperons may not seem that new to you, these are a completely new approach, and the results are amazing. The drooperons work in conjunction with the elevons to increase lift in thermal activities, and also increased aerobatics. All of this is done with just 2 servos. How does all this work? [Here is a link](#) that explains how the drooperons on the Zulu work.

With drooperons installed, the Zulu can reach a much higher lift coefficient, ~80%, before stalling, both right-side-up and inverted. This allows for tighter turns, loops, a lower sink-rate, and slower stall speed. The drooperons are also effective at increasing roll-rate, especially at low speeds. With drooperons, the Zulu is also more stable during the deep-stall maneuver, making landings and altitude control easier.

So what do you get with the Zulu? It is intended to be able to fly in very light lift conditions, but still be fun to fly. Not only will it soar when other planes can't, but it will make the most of the light lift and allow you to have fun. The Zulu can be tip launched for added height, yet it is very much at home on the slopes. Beginners and advanced pilots alike love this plane!

The Zulu has gone through many prototypes and at least 3 different production versions before this EPO molded version. The EPO version is by far the easiest to build with typical build times well under an hour. Just install your radio gear and glue on the tail. Very detailed instructions are included, so even someone that hates to build should have no issues with this one. The wings are removable via a twist of a screw and unplugging the servo leads, this is great when transport space is tight.

We have been flying these in a wide range of conditions from a mouse fart up to about 25mph at our local slopes. Pilots of all levels have been enjoying the flight performance. The plane is perfectly happy to make lazy turns in the sky, or turn it up and go crazy doing VTPR style maneuvers right off the deck. That is what makes the Zulu so great, it is very versatile!

Power Option - Yep, she even has a firewall installed below the lightly glued nose cone. We are still making final recommendations for power systems at this time. More details soon.

Light wing loading of 4.6 oz/sq.ft (14.1 gm/sq.dm) means she can float when needed.

Recommended radio gear:

1. Transmitter with flying wing / delta wing mixing capability, expo/dual-rate preferred
2. Two channel receiver
3. Two metal geared servos (Emax ES09MD is a great choice that fits very well in the molded pockets.)
4. AAA square battery pack or 2/3A flat pack. (Either results in a nearly perfect CG for the Zulu in glider form.)

Kit includes:

Two wing panels with carbon spars embedded

Fuselage with motor mount, removable nose cone, and magnetic hatch

Tail fin

**Jeff Sorenson** brought in a new Edge 540 from Mile High RC Hobby. He said even the high quality hardware supplied in the kit is good enough to use.

[http://www.milehighrc.com/Edge540\\_20CC\\_AP.html](http://www.milehighrc.com/Edge540_20CC_AP.html)

## Edge 540 V3 20CC

### Specs :

WING SPAN:67in(1700mm)

LENGTH:65"(1649mm)

WING AREA:907sq in(58.5sq dm)

FLYING WEIGHT:7-7.7lbs(3000-3300g)

ELECTRIC: BRUSHLESS MOTOR A5030

PROP APC15x8-E LI-POLY 5S 3700-4800mAh

GLOW:.75-.91 (2C) .91-1.10 (4C)

GASOLINE:20-26cc

RADIO:4CH/5S Or 4CH/4S/1ESC (80A)

Servos of 140-200 oz.-in.

### Features:

Latest Structure

Super quality

Easy building

Complete with accessories

Low wing loading makes it easy to fly

Light weight construction with high structural strength

Excellent aerobatics and 3D performance

High performance hardware includes:

    Fiberglass horns

    Ball linkage control system

    One piece Carbon fiber landing gear

    Advanced rubber wheels

Two pieces removable wings

Aerofoil tail wings

Carbon fiber wing tube

Carbon fiber tail wheel assembly

Carbon Rods in Fuselage for added Strength

Fixed ring inside cowling for easy build

Powered by Electric Glow or Gasoline



*Until next time... Stay warm*