



DCRC Club Meeting
March 18, 2016
Friday 7:30 pm

DCRC Club Meeting
Third Friday of
each Month
7:30 PM
Montgomery County
Council building
100 Maryland Ave
Rockville, MD
PROGRAM:

NEWSLETTER

Volume 62 Issue 3

Dave Schoen shows
his latest flying wing
modifications.



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County Liaison: Jim McDaniel

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Did you know that any airplane brought in to the model shop will receive 3 free raffle tickets. Bring in your models each month for your free tickets, and to share ideas.

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Dave Schoen showing off his newest design change, operational rudders, which will allow the wing to maintain sustained knife edge flight.



If your wing won't yaw, go in drag

By David Schoen

The classic swept RC flying wing lacks yaw control. Without yaw control knife edge flight and stall turns are not possible. Yaw control can be achieved by the use of a central rudder, vectoring the thrust of the motor or creating drag at the wing tips.



Tip drag rudders are easy to execute and require very little modification to the wing.

In the picture, the already existing wing tip verticals were cut about 3 inches from their trailing edges. The pieces that were cutoff were used as rudders and reattached with tape hinges. A small servo was added to each wing tip to drive the rudders. Yaw is achieved by moving only one rudder outboard, i.e. the right rudder is moved right or the left rudder is moved left. Move them both and they act like brakes. To achieve the desired rudder movement, a dual rudder tail type was selected in transmitter and each rudder's inboard travel is prevented by setting the travel in that direction to zero.

To use the rudders as air-brakes a Gear to Rudder mix was created. When the gear switch is thrown both rudders deflect outboard.

PS



I have now increased the rudder size to about 10 square inches from the original 6. My maximum deflection is 50 degrees. I have moved Gear control to a 3 position switch which allows two different levels of braking.

I am looking forward to other people trying this as I am sure there is much to be discovered about tip drag rudders.

DCRC Club**Meeting**

BY DOUG HARPER



The meeting, held at the County Office Building, was called to order by President Jim McDaniel at 7:36 PM. Jim asked for the introduction of any new members or guests. None were present.

Jim asked all present to exhale a big sigh of relief now that we have our field back again. There was a very loud and long sigh! Jim spent some time recounting the many ups and downs leading to this momentous event. Jim thanked the AMA execs, who were in attendance at our meeting last month, for all the hard work they did to make this happen. Jim also thanked the FAA for their help in making this happen.

County Liaison: Jim recounted a conversation he had with our new Mont County Park Manager who oversees our field. The Park Service continues to support us in our hobby activities.

Events: The last indoor meet is March 2. Andy Finizio led a discussion to test the membership on the idea of an Electric Flyin at our field. The purpose of this would be to stimulate interest in the hobby and DCRC. The membership was enthusiastic about this idea. Andy asked for help to put this together and he will pick a date to set this up.

Training/Community Outreach: Jim Fisher reported that he is anticipating a great season of training again this year. He has met with his helpers (Guy, Joe, John.....) to put together a plan for several new training planes. He expects to be ready on April 23 for the first training session. He has 12 sessions planned plus one intro session this year. Jim is attempting to plan his schedule around other model activities to minimize interference. He will plan to have a "mini" flight

school at the Bealeton Event this year. He is planning to host the Catholic U students again this year who are contending for the max lift SAE program. This will be done on Feb 27 and they will go to Texas in May for the competition. Ed Leibolt is helping with this worthwhile activity. Rockville Science Day is April 24 at the Mont Co Community College again this year. We fly Vapors at this meeting and it draws considerable interest from County residents. There is a Cub Scout Day Camp again this year at the Frederick Airport which we will try to participate in. A date will be announced later.

Field Maintenance: David Garrison has checked the batteries in the field charging stations.

Membership: Jose Sanchez reported that membership stands at 142.

Safety Coordinator: Walt Gallagher had no report.

Raffle: David Garrison brought a BNF Spacewalker indoor flyer for tonight's raffle. The winning ticket was held by Spencer Fisher who was thrilled. The membership was also.

Web Site: Tom Pfarr. No report.

Treasurer's Report: Doug wrote three checks over \$100 this month. He had a YTD budget report for anyone who cared to see it.

Newsletter: Andy Kane. No report.

New/Old Business: Andy Kane reported that the FAA reports there are 342,000 pilots registered with the FAA to fly "drones" in the US. Andy also reported that we may be excluded, as a Community Based Organization, from this "drone" category sometime in the future. Andy also feels that the FAA will allow flying over 400 feet in altitude at AMA sanctioned fields like McMap. This may require a field waiver. Jim reiterated that all flyers at our field must be AMA members. Andy also stated

that he doubts that any law enforcement agency will be doing "ramp checks" at our field to check on registration but they might be looking for people operating a drone in an "unsafe" manner.

Jim announced that, starting in May, we will hold our meetings at the field for the summer.

Model Shop: David Schoen presented his latest flying wing modification. Dave has been the "father" of the electric wings which have become quite popular in the Club. Dave designed the wing and is known for cutting the foam cores which form the heart of these great flying planes. Recently it occurred to him that he would like to try rudders on one of his wings. He mounted two 4 sq in rudders on one of his wings. Moving the rudders together didn't work too well due to yaw so he came up with the idea of controlling the rudders individually which worked great. He can now do killer knife edge maneuvers all day long. He also uses them as speed brakes by moving both outward together. He uses small servos mounted in the wingtip where the rudder mounts to control the rudders. The Membership gave Dave credit for a very creative idea that works great.

Program: No program tonight.

The meeting adjourned at 9:15PM.

*Calendar of Events 2016*March 2016

- 3/2 DCRC Sponsored Indoor flying
Soccerplex Germantown, MD
11:45 am till 3:45PM
- 3/10/3/12 Florida Jets Lakeland FL
- 3/18 DCRC Club Meeting/ Tom Pfarr
- 3/19-20 Cape Coral Big Bird Fly In, FL
- 3/23 DCRC Board Meeting/Tom Pfarr

April 2016

- 4/15 DCRC Club Meeting/Jim Fisher
- 4/20 DCRC Board Meeting/ Jim Fisher
- 4/23 DCRC Flight Training 8:30 AM Walt
Good Field

May 2016

- 5/7 PCRC Open House, Bowie, MD open
to all
- 5/14 DCRC Flight Training 8:30 AM Walt
Good Field
- 5/20 DCRC Club Meeting/David Garrison/
At the flying field
- 5/25 DCRC Board Meeting/ David Garrison
- 5/25-29 First in Flight Jet Rally, Wilson, NC
- 5/28 DCRC Flight Training 8:30 AM Walt
Good Field

June 2016

- 6/3-5 War birds and classics over Fredericks
burg, VA
- 6/11 DCRC Flight Training 8:30 AM Walt
Good Field
- 6/17 DCRC Club Meeting/John Petley/
at the field.
- 6/22 DCRC Board Meeting/John Petley
- 6/25 DCRC Flight Training 8:30 AM Walt
Good Field

July 2016

- 7/6-10 Warbirds over Delaware, Lums Pond
State Park, Newark, DE
- 7/9 DCRC Flight Training 8:30 AM Walt
Good Field
- 7/15 DCRC Club Meeting/Andy Kane/
At the field
- 7/20 DCRC Board Meeting/Andy Kane
- 7/23 DCRC Flight Training 8:30 AM Walt
Good Field

August 2016

- 8/5-7 Wings over Piper fly in.
Lock Haven, PA
- 8/13 DCRC Intro Pilot Program IPP 10:am
Walt Good Field
- 8/19 DCRC Club Meeting/Walt Gallagher/
At the field
- 8/20 DCRC Flight Training 8:30 AM Walt
Good Field
- 8/24 DCRC Board Meeting/Walt Gallagher

September 2016

- 9/9-11 Bealeton Big Bird Fly In Flying
Circus Aerodrome Bealeton, VA
- 9/10 DCRC Flight Training at Bealeton VA
Flying circus Aerodrome
- 9/16 DCRC Club Meeting/Andy Kane/

**District of Columbia
Radio Control Club**

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One of the oldest and largest RC
clubs in the US.
And now an AMA Gold Leader Club

www.dc-rc.org

March 2016

Suggested web links

[Giant Scale warbirds in formation and FPV](#)

[Flying Giants and e-fest 2015](#)

[Check out some vintage WWII footage](#)

[Here is an instructional video on the Corsair](#)

