

The Clark Flyer
The official publication of the
Clark County Radio Control
Society.

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The Clark Flyer March 2009



Hi everybody, I showed up at the March meeting with only two or three things on the agenda. I thought this might be a quick meeting. Boy was I wrong. Once I opened up the meeting, it just rolled on for over an hour. It seems that we had a lot of things to talk about, and talk we did. I think we got some good business done this evening though. I'll let you read about it in the minutes, but this just goes to show you that you never know what might come up at our monthly meetings. Hopefully you are making it to them and getting the things on your mind address.

This month the new CCRCS

2009 Event Calendar came out. Hopefully it will be posted on the web page by the time you read this. Lots of fun to come. One thing I'd like to mention, after the May fun fly, we are trying something new. We will open the field to visitors to get a test flight in on the buddy box. It's time to start looking for some new member and hopefully this will be a way we can reach out to the community to let them know we even exist.

The show and tell was well stocked this month too. It looks like there will be some nice new aircraft at the flying field this spring. I love seeing the new planes, keep them coming.

Luis

www.clarkflyers.com

Meeting Minutes March 11th, 2009

Meeting called to order at 7:30 PM

The minutes from the last meeting were accepted as posted on the web site.

Steve Piper gave his Treasurer's Report: We had a net income of \$1,448.08 for 2008. We currently have 4 CD's and \$3,743.40 in our checking account. He also talked about membership renewals and stated that approximately 50 members had renewed so far. Steve talked about contacting members to remind them of renewing their dues. There was a lot of discussion on what was the best way to accomplish this. In the end a motion was made, seconded and passed that there will be a reminder mailed out in December, and a reminder sent out in February. There was also a suggestion to send out a reminder by email immediately. *(This has been done.)* Steve also reported that he has sent in the club's Charter.

Luis reported that Grant Bigelow made a donation to the club of \$35.00

Randy Boardman presented his event calendar which was approved by the membership.

There was more discussion on the resurfacing of the runway. Ed Hagedorn will get quotes for the next meeting.



Ed Hagedorn's Great Planes Super Skybolt
Incredible Job Ed
To see the Super Skybolt come together go
to
<http://www.clarkflyers.com/edsskybolt.html>

Dave Anderson reported that Grant Lord made new signs for the field; he doesn't know the final cost will be but expects to hear back from Grant on that. A special to

Grant and to DaveYardes for putting up the signs.

Dave Anderson talked about a Mentor Program that we might be interested. He will arrange for a representative of the program to come and talk about it next month.

Dave also talked about public flying after our fun fly's. Since he has been advertising our meetings there has been a lot more guests showing up at the field to just watch.

There was also discussion on hosting a regularly scheduled training night. An email will be sent out to all members to see who would be interested and what days and times work. One possible suggestion was Noon to 4:00PM after every fun fly. This will be readdressed at the April Meeting.



March's Raffle:
Carl Goldberg Skylark 56 Mark II
Won by Shane Kennedy

Randy Boardman talked about raising the Landing Fee of fun fly's to \$5.00 with \$1.00 of this going back to the club. A motion was made, seconded and passed.

Tom O'Neal discussed a couple of incidents where electrical aircraft were left armed after a flying session.

Shane Kennedy won the Airplane Raffle. Congratulations Shane.

The criers raffle was won by Dave Perry, who was not at the Meeting. The \$114.00 will roll over to the next meeting.

Show and Tell: Ed Hagedorn had his Great Planes Super Skybolt

Ed also brought John Shirron's Carl Goldberg Chipmunk that he repaired after it was attacked by the infamous Tree Monster.

Tom O'Neal had his Top Flight P-51 that was partially built and he created a wing for it from a foam core.

John Shirron brought a plane he picked up at the Monroe Swap meet, nicknamed 2 Buck Chuck after the price he paid for it.

Larry Tate brought a home made wing rib router.

Dave Anderson brought a homemade Dremel tool router table.

Herb Reidlinger brought a couple of his pattern racers.

The meeting was adjourned at 9:00.

Why LiPo balancers cannot re-balance your LiPo

By David Buxton

Imagine (don't actually do it) connecting a 1000 mAh pack in series with a 2000 mAh pack. Connect them up to a charger and of course the lower capacity pack will reach full charge twice as fast as the other. If a balancer is attached across both and the charge rate is slow enough, then they can both be made to reach full charge at the same time. Now imagine connecting them up in an airplane to fly around the field for awhile. The smaller pack will run down twice as fast as the larger pack. Continue to fly and the smaller pack will be damaged when its voltage gets too low. As they say on TV, don't try this at home.

Crash an airplane and crunch the LiPo battery a bit and the damage will reduce the cell capacity of the cells unevenly so that the cells are no longer in balance in terms of individual capacity. Repeatedly overheating a pack will accomplish the same thing. Lets say that the middle cell, which gets the hottest, has had its capacity reduced relative to the other cells. Its cell voltage will climb somewhat faster during charging unless a balancer is used. During flight the center cell's voltage will decline faster. The aging process will tend to accelerate on the damaged center cell.

Clearly, it is very important to always use a balancer when cell capacity is no longer in balance. It is also important to cut your flight time shorter. It should also be obvious now that, while a LiPo balancer can keep cell voltages in balance during the charge process, it cannot re-balance the capacity of each cell in the pack. I have LiPo batteries that I've used for two or three years that the balancer tells me I don't need to balance. I have never charged then with a balancer. A well balanced LiPo pack will keep itself in balance without need of a balancer. However, a LiPo pack whose cell capacity is out of balance must be charged with a balancer every single time it gets charged. It is also important to use a timer so that you can land before flight symptoms indicate the pack is running out of gas. Such precautions are very important unless the cost of batteries is of no concern to you.



Tom O'Neal's Top Flight P-51
He built up the wing from a foam core



Herb Reidlinger's Pattern Racer
Contact Herb if you are interested in getting into this exciting flying discipline

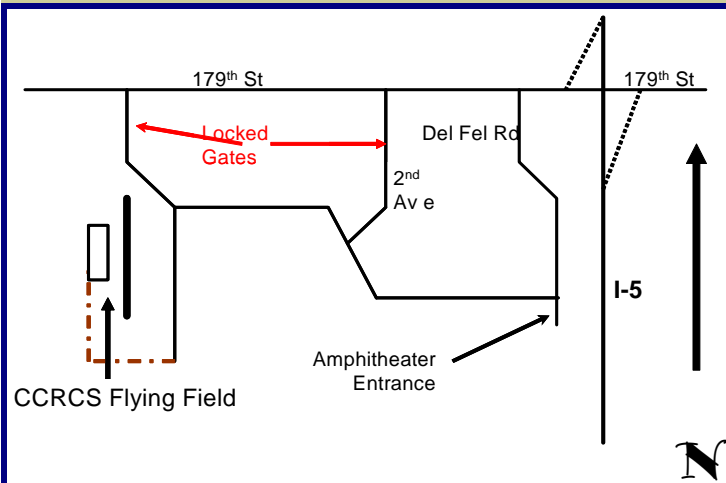


Left: Larry Tate's Homemade Router for Wing Rib's
Right: Dave Anderson's Homemade Dremel Tool based Router Table



John Shirron's
New Plane
from the swap
meet:

2 Buck Chuck



Directions:

Exit 9 from I-5 (Battle Ground Fairground exit) Head west to 2nd Ave. There are two ways to get to the field. Spectators and club members can use the Amphitheater entrance (open from 8 AM. until 9 PM. most days).

If locked club members can use the club entrance off of 2nd Ave. You must be a member and know the combination of the lock!



**April's Raffle:
Model Tech ME 109 .25 ARF**

Wing Span: 45 in (1143 mm)

Flying Weight: 3.2 lbs (1541g)

Fuselage Length: 37 in (940 mm)

Wing Area: 360 sq in (23.22 sq.dm)

Engine Requirements: .25 — .36 2 Stroke

Clark County Radio Control Society members shop
at the following locations

HobbyTown USA

8720 N.E. Centerpointe Dr.
Suite 219
Vancouver, WA 98665
(360) 823-0904
Fax: (360) 823-0906

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4503 N Interstate Ave
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(503) 287-4090



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Beaverton OR 97005

Phone 503-644-4535
FAX 503-626-7490

Email Tammies@tammieshobbies.com



1128 Main Street,
Oregon City, OR 97045
Phone 503-656-2172

www.coyotehobby.com

Email: info@coyotehobby.com

Monday- Friday 10:00 AM - 6:00 PM / Saturday
10:00 AM - 5:00 PM / Sunday 12:00 Noon - 5:00 PM



13502 SE Mill Plain Blvd, Suite #C6
Vancouver, WA 98684
(360) 891-5572
www.islandhobbies.us

CCRCS MEMBERSHIP APPLICATION

2009

Applicants must be a member of the ACADEMY OF MODEL AERONAUTICS (AMA) before they will be accepted for membership in the Clark County Radio Control Society. (CCRCS)

The initial initiation fee and dues must be paid at the time of submission of application.

Dues are \$56.00 per year, or \$4.67 per month. (If you were to join in June your dues would be \$32.69) plus \$20.00 initiation fee. Any renewal sent in before March 1st will be discounted \$5.00. (\$56.00 less \$5.00 early renewal= \$51.00)

Any member of the same household or any person holding a Junior AMA Membership receives a 50% discount on dues!

YOU MUST submit a photocopy (or show proof) of your AMA card with this APPLICATION.

Applicant Information

Name _____

Address _____

City _____ State _____ Zip _____

AMA # _____ Phone# _____

Email Address _____

Radio Frequency (s) _____

Applicant Agreement

I, the undersigned, have read and understand the AMA National Model Aircraft Safety Code, and will abide by the CCRCS By Laws. Before flying my aircraft I will thoroughly understand the boundaries and rules of the CCRCS flying field

Applicant Signature _____ Date _____

Send this application and a check made out to CCRCS (along with a self addressed, stamped envelope if possible) to

CCRCS

c/o Steve Piper

2438 Lewis River Rd

Woodland, WA 98674

e-mail: rcsteve1@yahoo.com

Website: www.clarkflyers.com

Webmaster: Alan Cooper - exchoice@yahoo.com

President: Luis Munoz — flycubs@comcast.net

UPCOMING EVENTS

April 11, 2009: FPM Club 20 Pylon Racing (Final Race of the year)
Fern Prairie Modelers Field, Washougal, WA
www.fpmc.org

May 2, 2009: Celebration of Silent Flight
Fern Prairie Modelers Field, Washougal, WA
www.fpmc.org

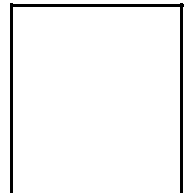
May 3, 2009: Golden Age Air Races
Fern Prairie Modelers Field, Washougal, WA
Contact Jim Riggle for more info: jim@jimriggle.com or (503) 655-3243
www.fpmc.org

June 14 – 15, 2009: Oregon Aerobatic Challenge
Molalla RC Field, Molalla, OR
www.molrca.com

June 20, 2009: Warbirds over Washougal
Fern Prairie Modelers Field, Washougal, WA
www.fpmc.org

June 27—28, 2009: Big Birds Over Woodburn
Duster RC Club, Woodburn, OR
www.dustersrcclub.com

The Clark Flyer
P.O. Box 65566
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First Class Mail

Address Correction Requested



TO: