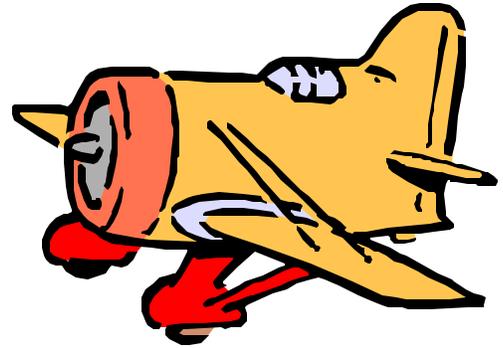


M.A.R.K.S.

Miniature Aircraft Radio
Kontrol Society



SEPTEMBER 2004

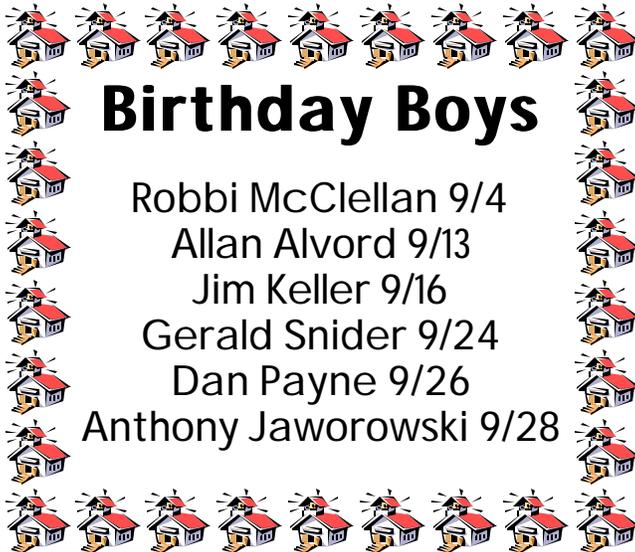
A.M.A. Charter No. 133

President: George Manning
Vice Pres.: Robert Boehm
Secretary: Bill Payne
Treasurer: Chuck Comstock
Event Coordinator: Scott Workman
Field Directors: D. J. Steir , Pat Wahrer
Safety Officer: George Manning
Newsletter co-editors: Dan Payne and Scott Workman
Email: dpanddm@aol.com

Check us out on the WEB
at
MARKSRCCLUB.COM



*** Next Meeting ***
Thursday, September 9th
7:00 pm SBIA Security Office
165 S. Leland, San Bern. CA



Birthday Boys

Robbi McClellan 9/4
Allan Alvord 9/13
Jim Keller 9/16
Gerald Snider 9/24
Dan Payne 9/26
Anthony Jaworowski 9/28

New Sponsor

John Mirarchi of Hobbytown USA in Redlands has donated several items to the club including two complete .40 size trainers. He is willing to give MARKS members a 10% discount on purchases if they show their MARKS membership card. He also would like input from the club as to what items he should stock.

MARKS member John Richardson of Trisha's Art Corner has been and continues to be a sponsor of the club. As many of you know, he also gives members a discount and will order items if he does not have them in stock. John's shop is located in the north end of San Bernardino.

The MARKS club thanks both Johns for supporting our club and our hobby.



Tricia's Art Korner
and Radio Control Aircraft

604 West 40th Street
San Bernardino, CA 92407
Tues Thru Sat

(909) 886-6043
TRICIA & JOHN

Cg– Biplane - by Cal Malinka

Just as building a biplane is almost twice the work because of the two wings, so determining where the Cg should be, is twice the effort of a monoplane.

Determining the desired Cg location on a monoplane requires finding a location of the mean chord, locating the desired Cg on the main chord and transferring this location to the fuze centerline. I outlined the graphical method of doing this in a previous article. The determination of a biplane Cg requires doing this twice, then applying a simple formula to combine them into the overall desired Cg location.

You must have a plan view of the biplane so that you know the relative location of the two wings. What we do is, after determining the desired Cg of each wing individually, we note its location on the fuze centerline and then combine the two locations using the magic formula. If desired, this overall Cg location can be transferred to the underside of the bottom wing using the plans; which will make it easier to check the location by the string method.

So here is the formula:

$$Cg = (A_t Cg_t + A_b Cg_b) / (A_t + A_b)$$

Cg = Overall Cg location

A_t = Area of top wing

A_b = Area of bottom wing

Cg_t = Cg distance top wing (leading edge to Cg)

Cg_b = Cg distance bottom wing (leading edge to Cg)

You must be very careful when you actually measure the Cg location to have the plane in its exact flying attitude. Remember in an earlier article it was noted that using the string method of hanging the plane gave us the spot where a vertical line passed through the Cg; which was not **on** the surface, but was some distance **below** the surface. This "some distance" in a biplane is fairly large so you will incur a large error if the plane is not hanging in perfect flying attitude.

Cleaning the Toilet (IT REALLY WORKS !!)

1. Put both lids of the toilet up and add 1/8 cup of pet shampoo to the water in the bowl.
2. Pick up the cat and soothe him while you carry him towards the bathroom.
3. In one smooth movement, put the cat in the toilet and close both lids. You may need to stand on the lid.
4. The cat will self agitate and make ample suds. Never mind the noises that come from the toilet, the cat is actually enjoying this.
5. Flush the toilet three or four times. This provides a



"power-wash" and rinse".

6. Have someone open the front door of your home. Be sure that there are no people between the bathroom and the front door.
7. Stand behind the toilet as far as you can, and quickly lift both lids.
8. The cat will rocket out of the toilet, streak through the bathroom, and run outside where he will dry himself off.
9. Both the commode and the cat will be sparkling clean.

Sincerely,
The Dog

Racing News

The pylon racing group continues to grow! We had eight pilots enter the August race which made for many exciting heats and a very competitive final. Scott Workman crossed the finish line third in the final race but ended up in first place when the leaders were called for several pylon cuts. Dan Payne took second and Asa Cosby was third.

That's the nature of our pylon racing format - you don't have to be the greatest pilot or have the fastest airplane to win. Staying on the course (going around the pylons) and making fewer mistakes than the

Next Race:

*Saturday, September 11
Greenspot (George Koch) Field
8:30*

next guy will often land you in one of the top spots.

Last month we had a couple of races where there were multiple pylon cuts and some spirited debate over the points and order of finish. Let me apologize for the confusion and for the lag time between heats - my fault! Let me also say that it won't happen at the next race. I want to be fair to everyone and I want to hear your concerns and suggestions, but during the race we're going to stick to the rules, run the sort, and let the chips fall where they may. No system is going to be perfect in every situation - sometimes the rules are going to disappoint you, and sometimes they're going to put you in first place!

There will be one major rule change at the next race. Thanks to your suggestions, a "start cut" will no longer be an automatic zero. We are changing the rule so that you get to keep racing if you accidentally blow the start.

In other news, John Richardson recently visited the Gilman Springs club at their monthly meeting and talked about our racing program and showed-off one of the ARF racers. Interest continues to grow in our racing program and John reports that he is still selling many airplanes.

A "friendly reminder" about our racing format: **KEEP IT STOCK!** We are starting to see little things like tape over the hinge joints...etc. The only acceptable modifications are listed in the rules. See them on line at marksrclub.com.

SEE YOU AT THE RACES



Above: Our top three finishers at the August race: Scott Workman - first, Dan Payne - second, Asa Cosby - third.



Club Secretary Bill Payne crunches the numbers on the score sheet while Asa Cosby, Pat Wahrer, and Holly Hollingsworth keep him honest.



Jerry Calvert and Don Giandomenico grab some shade between races.