



# THE MAX-OUT

Newsletter of the Magnificent Mountain Men

AMA CHARTERED CLUB #177



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Or, join the web group at:

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2013-03 (April)

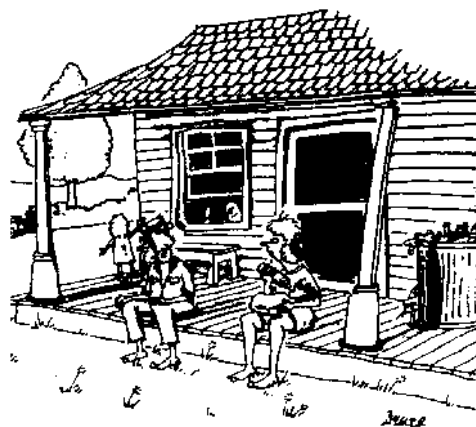


## PONDERINGS DEP'T

It's been a busy last couple of months. I may be taking a sabbatical for a couple more here in the near future, we will see. Don't be shy, I could use a fill in for the newsletter to give me a hand...call Murph, OK?

I won't drop off the planet but I do have some personal business to take care of and that will tie me up until the end of summer if all goes well.

In the meantime, the April Contest is coming on the 28th and I will be the CD. I hope the weather breaks! This AM, as I was writing this the guy across the street was mowing his lawn and an hour later it was snowing. There is 2 inches on the ground now. Pray for sun!



"Ma ...the outdoor season is upon us. I will be leaving Sunday bright and early to go to the first contest, OK? Did you dust off my Coupe, 1/2A, E-36 and HLG like I asked?"

Thermals!, or heat from the lights, or whatever...

Rick

*"The MAX-OUT"* newsletter is printed about the second or third (?) week of the month. Submissions should be not later than the end of the prior month.

**TO JOIN THE CLUB OR SUBSCRIBE**

- Full membership is offered to any current AMA member: \$40
- SAM-1 Crossover membership: \$20
- Newsletter Subscription Only: \$15
- Send \$ to:  
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**Newsletter & Other Stuff:**

Rick Pangell 303-798-2188

**Flying Field Weather Line:**

303-766-0020

**NEAR TERM EVENTS:**

<b>MMM MTG!</b>	<b>Every Third Tuesday at 7:00 PM, Dinner at the Castle Cafe in Castle Rock.</b>
<b>Wings Over the Rockies Indoor</b> 7711 E. Academy Blvd. in the former Lowry AFB Denver	Various Sundays of every month from 1-5pm. Admission Required. See: "www.indoorcolo.org" for complete info

**HEADS UP: !!!!**

*Going to the field Monday-Friday! Don't forget to call the Corps of Engineers trailer on Quincy Rd, The number is (303) 690-3816*

**Motorcycle Use on the Field Policy:**

*Follow the roads wherever possible and not to follow the planes cross-country. Take the shortest path possible to the plane in order to retrieve it. Avoid riding through noxious weeds.*

**MMM Now accepts "PAYPAL" for Dues, Contest Entry Fees, Etc !!**

- Simply Log in to paypal.com (or create your own 'PAYPAL' account if you want)
- Click on "Send Money" in the upper menu bar
- In the "To" block, type in [mmmffclub@gmail.com](mailto:mmmffclub@gmail.com), the amount, and click the button "Services"
- In the next form where you confirm payment, in the Lower "Subject" and "Message" boxes state what the money is for... annual dues, entry fees and such.

## PRESIDENT'S PONDERINGS

*Jerry Murphy*



Here we are nearing the end of March and our indoor season will be concluded with two great contests. The first is our 7<sup>th</sup> annual Pikes Peak Ceiling Climb. This contest is the brain child of Don DeLoach, and under his leadership this event has brought some of the top indoor competitors to this event. There is no better way to enhance your indoor skills than observing those at the top of their game. You would think the "big boys" would not want to travel to fly in a 36 foot 9 inch site, but with Don's help that is exactly what has happened. We have had the pleasure of flying with the likes of our own Bill Leppard and Rob Romash as well as Bill Gowen, John Kagan and Kang Lee. So dust off your winder and other indoor stuff and make the trek to Colorado Springs this St. Pat's day (Sunday March 17) for a day of outstanding indoor flying.

The final event of the indoor season will take us back to the Round Valley Dome in Edger, AZ the weekend of April 5-7. If you have not seen this site you have missed something special. With a smooth ceiling at just under 100 feet you can fly all day and never experience a hang up. The Phoenix club is sponsoring this event and it is well worth the drive. Last year Rob Romash and I departed his house in Colorado Spring in the early afternoon, stopped for dinner in Albuquerque, and were in the hotel a little before 10 PM. The town is very nice, contest is well run, and it was a great way to wrap up the indoor season.

The club had a good showing at the Wings Over the Rockies event. In fact it was our best one ever as it looks like we might have found a new Jace. This young man traded a TD 09 to Ray Boyd for a Santa Cruz kit. This fellow lives near Rick, so we have a good chance of having a new power flyer on the field. Ray, that was a great trade!

On the subject of kids Mark Covington, Don DeLoach, Bill Leppard, and Neil Myers were out to the University of Colorado- Colorado Springs Saturday March 2 to help run the Science Olympiad CLG event. We had students from all over Southern Colorado and it was a fun event for all of us. Thanks fellows for your help.

The first outdoor event of the 2013 season is the Winter Coupe contest Sunday April 28. This is not a Scramble, but as it is sanctioned as a record trial you can fly anything you want, only the Winter Coupe events will be scored. Rick is the CD and the events are FIG (Coupe), 1/2A E-36 combined, and HLG.

Speaking of outdoor flying, and the goal of having fun we must keep safety as our number one concern. By now many of you have heard about how Rick's TD 049 threw a prop blade that hit my right hand resulting in a deep cut and a visit to the local ER. We are lucky to have a professional grade first aid kit as a part of the CD kit so we can deal with situations like this. Also we have maps to the nearest ER in the CD kit. There is more that we can do. I have asked Chuck to work with Sean Hillis to see if we can have a CPR class for all interested club members. With a little bit of luck we might have this before the April 28 contest.

Well that is it for now. After you finish reading the news letter it is back to the shop to finish your indoor ships.

## STUMP CLUB DEP'T

*This is the place where club members can share their most treasured learning experiences*

*Bill Giesking's birthday was March 27<sup>th</sup>*  
Billious speaks!

Thanks for all the kind thoughts...frankly, I didn't think I would make it this far.. What scares me is that 90 doesn't look all that far away anymore. What really scares me is thinking of having a wrestling match with Sky Zilla! 8 years down the line!

I have been out of touch. The best thing about this birthday-tiding stuff is that I'm now hooked up and back on the mailing list. When my computer got hacked some months ago I lost most everything including dozens of email addresses.

Yet I have been very busy with free flight –albeit in my nightly dreams shared by a cast of thousands, including all the MMMers.

I can't find all the parts! "Where in hell is the damned Stab!!!??? The round starts in 5 minutes!! I'm not kidding, my dream life is stressful. Yeah...and they are all folding-winged plane nightmares (if you wake up tired in the morning you just might have been sharing the trauma. Thanks)

Thanks again! oh great Magnificent Mountain Men!!

### Soon, he will be old enough!...

In his school competition Jace had the longest flight time (44 sec and 64 sec) which would have beaten all of the high school students had he been permitted to place. Seems a middle schooler is not allowed to place in a high school competition. Go figure.

### **Tailbooms:**

FYI...Stan B now has newly-acquired 32.5" tapered TLG booms in stock which are also perfect for E-36s like my 202 Super Pearl. They are 8 grams, equivalent to the Avia G-force Skinny UL but 10-15% stiffer. Not sure of the price but probably about what you pay for the G-Force from [www.goodwinds.com](http://www.goodwinds.com).

Contact Stan at [gliderbohm@aol.com](mailto:gliderbohm@aol.com)

thrmx  
DD

## The MMM Club Helping Kids

From: TTomme@clccs.org  
Subject: RE: Challenger Cearning Center Program  
Date: Mon, 1 Apr 2013 19:38:30 +0000  
Jerry,

Thank you! Your team did an excellent job and I am hoping that you didn't go home dreaming of "what causes drag?".

Hope to work with all of you again soon.  
Tracey

Tracey Tomme  
President and CEO  
CCESSE/Challenger Learning Center  
[www.clccs.org](http://www.clccs.org)

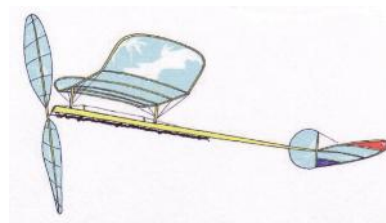
**From:** Jerry Murphy  
**Subject:** Challenger Cearning Center Program

I want to thank everybody who helped make our physics of flight session such a success. The highlight of the day was when one of the students said this was the best outing experience he had ever had. All the kids had fun and almost everybody was suprised when their airplanes actually flew.

The course content developed by Ms. Tomme was a great fit for the students and it blended well with both the class time and knowledge level of the students.

Special thanks to Rob Romash for the outstanding demos of his indoor models. He is now the current record holder for duration in the hanger with his 4+ minute flight with his Penny Plane.

Regards  
Jerry Murphy



## Colorado State Science Olympiad Finals!

The MMM club can be proud....the teams we mentored from Poudre and Homeschool CRUSHED the opposition in glider.

And, then with the scoring rules and all that, the MMM team of Jace Pivonka, Cass Pangell, Ray Boyd, Dave Westfall and myself had all of our results tallied and wrapped up within 5 minutes of the final bell.

The demo fling was not to happen...the air handling system came on at 3PM sharp, right at the end of our event and the maintenance guys came in, started pulling out the bleachers and kids started piling in, but we did make a meager effort. Jace had the P-18 and I tried to fly Pennyplane. I opted to stop...it was so confusing and then the crowd helped Jace with his P-18 and the expected happened so he stopped.

Long day, but the "MMM" staff stepped up and made us proud.

Rick

The kids did very well

Poudre took first in gliders with a pair of 33+ second flights

Homeschool took second with a pair of 22+ second flights  
and

Cheyenne mountain was forth. Unfortunately their best glider was damaged just before they

competed but, they were getting close to second place times.

### **As for kids at Poudre.**

Gage, Josh and Chris totaled 3 firsts and 2 seconds in the build events. They were just a hair short of 5 first places.

In robotic arm they had a perfect score with 30 seconds left. Enough to win. But they went for the bonus and as they did that they knocked over a bucket. Costing them 17 points and second place.

I would like to thank Rob Romash for all his help and the gift of the carbon fiber tape. That allowed the boys to get sub 2 gram gliders.

I would like to thank Rick Pangell for coming up to Poudre and spending a day teaching a class on aerodynamics. That day changed everything for the kids. Their ability to trim and get the best flights from a glider improved dramatically. And it showed at state. They went in, trimmed for the room and met their goal of 34 seconds with the second best glider. They never even got out the best one. Saving that for national AMA records attempts and Science Olympiad Nationals.

I would like to thank Don DeLoach for all your efforts in getting the kids the resources they need.

Finally, I would like to thank MMM for their time and effort. You guys have been very supportive.

Erik Bock





**7th Pikes Peak Ceiling Climb**  
**Colorado Springs, CO**  
**March 17, 2013**  
**CD: Don DeLoach**

CONGRATULATIONS to Rob Romash, for the umpteenth time, and three in a row: Grand Champ "Colorado Cup"

Rob Romash 18 pts.  
Bill Leppard 12  
Don DeLoach 10  
Dick Wood 4

Big thanks to:

**Mark Covington.** Not a contestant, he nevertheless spent three hours timing flights during a frenetic glider window.

**Marc Sisk.** Also not a contestant, he came early, brought two dozen donuts, and donated a wad of cash to the site fund. What a guy.

**Darold Jones.** Stopped by to time flights and lend support, and he brought a yummy cake.

**Kang Lee.** Did not attend this year, but made a generous donation to the site fund.

Also, big congrats to the kids (ten of them in all!) who flew in the SO glider event, Junior Rubber and others. This was the biggest kids event for MMM in some time.

**AMA HLG**

Rob Romash 36.6+36.8 73.2  
Jace Pivonka (J) 33.0+33.1 66.1  
Don DeLoach 31.2+30.8 62.0  
Skilly DeLoach (J) 2.2+3.0 5.2

**Standard Catapult Glider**

Bill Leppard 37.1+36.9 74.0  
Rob Romash 32.9+33.5 66.4  
Gage Bock (S) 31.2+30.2 61.4  
Josh Knebel (S) 26.9+25.0 51.9  
Will S. (S) 24.9+26.0 50.9  
Will Major (S) 21.5+21.4 42.9  
Chris Knebel (S) 20.7+17.2 37.9  
Matthew Boyd (J) 12.8+12.9 25.7  
Skilly DeLoach (J) 8.8+10.1 18.9

**Unlimited Catapult Glider**

Rob Romash 45.9+44.5 90.4  
Bill Leppard 39.1+37.9 77.0  
Jace Pivonka (J) 33.2+32.3 65.5  
Gage Bock (S) 27.8+28.6 56.4  
Josh Knebel (S) 26.9+28.0 54.9  
Will Knebel (S) 25.0+25.6 50.6

Chris Knebel 22.5+21.8 44.3

**Science Olympiad Catapult Invitational**

Will Sachsenmaier 24.6+23.9 48.4  
Josh Knebel (Poudre) 26.2+21.6 47.8  
Gage Bock (Poudre) 23.6+19.6 43.2  
Chris Knebel (Poudre) 19.6+19.0 38.6  
Chase (Cheyenne Mt.) 9.5+8.4 17.8  
Andrew (Cheyenne Mt.) 6.5+5.5 12.0

**WWII No-Cal Mass Launch**

Jerry Murphy Wildcat 1st  
Don DeLoach Spitfire XII 2nd  
Bill Leppard Spitfire 3rd

**FAC No-Cal Scale**

Don DeLoach Farman 9:38  
Bill Leppard Spitfire 6:28  
Jerry Murphy Wildcat 0:05  
Don DeLoach Spit XII 1:47

**Limited Pennyplane**

Rob Romash 7:06  
Bill Leppard 6:40  
Dick Wood 2:38

**A-6**

Bill Leppard 5:14  
Don DeLoach 4:47  
Jerry Murphy 3:13  
Dick Wood 2:48

**F1L**

Rob Romash 6:56  
Don DeLoach 6:27  
Dick Wood 2:41  
Jerry Murphy 2:30

**P-24/P-18**

Chuck Etherington 2:03  
Jace Pivonka (J) 1:54  
Matthew Boyd (J) :57  
Will Major (S) :54  
Skilly DeLoach (J) :25

**Ministick**

Rob Romash 7:24  
Bill Leppard 5:50  
Dick Wood 3:43

**Easy B**

Rob Romash 12:01

## Round Valley Dome Indoor Contest

April 6<sup>th</sup> & 7<sup>th</sup> 2013

Wednesday and Thursday PMAC members Elmer Nelson, Tom Gaylor, Bruce Grawberg, Bill Sewell, Richard Wood, and Mike Keller put on a Delta Dart building and flying session for the science class students of the Round Valley Middle School. The students each built and flew their own plane, all did very good and had a great time.

Thursday evening we had a mini seminar on tools and techniques used in building and flying indoor free flight models. Lots of good ideas were exchanged.

Friday was a practice day followed by the Saturday and Sunday contest days.

There were a lot of "rookie" indoor flyers from our club. Mike Keller who is an accomplished outdoor flyer finished ahead of Rob Romash in Catapult glider.

Rob is no rookie and darned hard to beat at indoor. Good show Mike! Rob rallied by besting Mike in Unlimited Catapult Glider.

All the guys from Colorado had a great time and set some new site records.

Bill Leppard now holds the F1D record by a few seconds over John Kagan's flights from last year. No Cal Scale Mass Launch was great fun with some very nice flights by all 4 contestants. Dick Wood, who has been doing indoor flying only since last June, is showing some real promise as are Elmer Nelson, Bruce Grawberg, Mike Keller, and Bill Sewell.

The hospitality extended to us by the dome staff and the community as a whole was outstanding. Everyone we dealt with went out of their way to see that we had a good time.

There was not a very big crowd but those who did attend all left with big smiles on their faces.

Next year the contest will be on the first weekend of April 2014 with Friday as an open practice day.

Steve Riley C.D.

## Round Valley Dome 2013

**F1D (1)** total of best 2 flights  
1 Bill Leppard 45:09

**F1L (3)** total of best 2 flights  
1 Bill Leppard 30:38  
2 Rob Romash 25:59  
3 Richard Wood 7:07

**F1M (1)** total of best 2 flights  
1 Bill Leppard 27:48

**Open Penny Plane (3)** best of 5 flights  
1 Bill Leppard 12:57  
2 Jerry Murphy 7:50  
3 Richard Wood 7:13

**Limited Penny Plane (5)** best of 5 flights  
1 Rob Romash 10:32  
2 Bill Leppard 9:36  
3 Jerry Murphy 9:07  
4 Richard Wood 8:35  
5 Elmer Nelson 5:57

**EZB (2)** best of 5 flights  
1 Rob Romash 17:43  
2 Tom Gaylor 4:56

**A-6 (4)** best of 5 flights  
1 Bill Leppard 6:03  
2 Jerry Murphy 4:02  
3 Richard Wood 3:58  
4 Elmer Nelson 2:40

**Mini Stick (5)** best of 5 flights  
1 Rob Romash 9:04  
2 Bill Leppard 6:36  
3 Richard Wood 5:09  
4 Elmer Nelson 3:05  
5 Tom Gaylor 2:09

**HLG (1)** total of best 2 flights  
1 Rob Romash 97.4 seconds

**Catapult Glider (5)** total of best 2 flights  
1 Mike Keller 125.49 seconds  
2 Rob Romash 115.00 seconds  
3 Elmer Nelson 93.00 seconds  
4 Bill Sewell 85.07 seconds  
5 Bruce Grawburg 73.25 seconds

## Round Valley Dome 2013 cont.

**Unlimited Catapult Glider (2)** total of 2 best flights

- |               |               |
|---------------|---------------|
| 1 Rob Romash  | 166.6 seconds |
| 2 Mike Keller | 130.0 seconds |

**Dime Scale (1)**

- |                  |              |
|------------------|--------------|
| 1 Bruce Grawburg | 15.3 seconds |
|------------------|--------------|

**No Cal Scale (3)** total of 3 flights

- |                |                       |
|----------------|-----------------------|
| 1 Bill Leppard | 10:02 minutes/seconds |
| 2 Jerry Murphy | 5:01 minutes/seconds  |
| 3 Mike Keller  | 1:57 minutes/seconds  |

**No Cal Mass Launch (4)**

- |                |
|----------------|
| 1 Bill Leppard |
| 2 Jerry Murphy |
| 3 Elmer Nelson |
| 4 Mike Keller  |

### OBIT...

Show below is a new 1/2 A pylon Free flight named QBIT, after that sub-atomic particle Dave Wineland isolated (if that's the word) and won the Nobel Prize in physics. Dave's name will appear in small 1/4" yellow letters beneath QBIT on the wing. I hope Dave doesn't mind.

It's on it now in black letters and hardly visible, so I'm changing it to Yellow.

A Qbit has the unique characteristic of being able to exist in two different states simultaneously. In a sense, a free light exists in two states also: The powered phase and the glide phase, only not simultaneously. I know this is a bit of a stretch.

Qubit uses the same flying surfaces as Santa Cruz MK III, and has a slightly longer fuselage (1 inch), not counting the rear mounted rudder. It has the Texas Timer III that Murphy supplied so I can go to a quick DT, and am looking for some ideas on the best way to hook up the mechanism which I've never used before.

It's starting life with a TD, carbureted, then switching to a pressure system and radial mount. I want to proof the wing location on the pylon for both cases, with CG @ 75 %. The incidence is 5/32" or 1.5 degrees.



It has a pinch of right panel wash-in, but I don't think it's enough. If I use trailing edge stock, how much should be used and how thick?

Yes, one side of the fuselage is blue and the other side green. Two color states simultaneously. (and the stab too? Ed...)

Pass the Jack Daniels.

It should be ready for glide tests and front end photos next week.

Thermals,

Ray Boyd



### FF Timer Breakthroughs...

Playing around with E-36 and F1Q's a bit this late winter and spring, I found two of the timers I liked lacking some key features. So after a bit of poking & proding at the manufacturers, they released some updates that appear to be ground-breaking!

For the all-locked up plane, like E-36 or AMA A Electric, my choice has been the original Z-Tron electronic timer, available from [bsdmicrorc.com](http://bsdmicrorc.com) for \$30. It is ultra-light (about 2.5 gr), easy to set (you DO have to know how to count in binary, but I used to be a mainframe assembly-language programmer, so I have that), and has discreet run and DT-time settings (more accurate and repeatable than with an adjustable resistor). And it also allows you to set the motor speed as controlled by the ESC.

See attached pictures for my setup with of one of these mounted on a ply plate along with one of the really tiny and light servos (2 gr) for DT from HobbyKing. After hard-wiring the servo & replacing the ESC lead with a lighter, flying lead, the entire setup which includes the DT release arm comes in at 5.2gr.

For all I like about the timer, the shortest DT setting available was 30 seconds, not very good for initial power trimming. And I was reminded of this with my first two flights on my E36 based on DeLoach's E202 short kit... I had the CG slightly too far back and too little incidence in the stab. After a 3-second run, the model came straight-down nose-in, no pullout! I was lucky that the ground was not hard and the damage was very minor, but a short-DT would have prevented any damage. Working with the device's manufacturer, his latest firmware now offers a 2-second DT for trimming purposes (I didn't want immediate DT as that can cause a wing collapse if you DT right as the motor cuts, especially with an electric as the brake action does not always stop the prop instantly!). I'm not sure what firmware version is in the timer stock out there, but if you already have one or pick one up and it doesn't have the 2-second trim DT, you can contact Serge directly and I'm sure he'll be willing to work out getting your timer(s) updated.

Then for the multifunction plane, like an advanced F1Q or AMA B Electric, I like the BBT Timer available from Mike at Starlink-Flitetech for \$35. Not only is it still pretty light (~4.8 gr) and a great deal, but it comes with interchangeable function chips which provide different sets of settings. When I first got one, I

noticed one of the chips included made two short movements of the DT servo right after the motor cut at about 1/2 second and 1 second, perfect for AR/VIT or AR/VIT/Bunt. But those earlier version chips didn't allow the motor run time to be adjusted based on the power available for the current F1Q rules.

So after a bit of back-and-forth, Mike just released a new function chip that enables the following:

- Function 3 - set the motor run speed from 0-8 power levels
- Functions 5 & 6 - set the motor run in 10's and 1's of seconds.
- Functions 7 & 8 - set each of 2 autosurface movements of the DT servo by 1/2 seconds after the motor cut.
- Functions 9-10-11 - set the DT time in minutes and 10's and 1's of seconds.

For me, this provides all the functions needed to do a full-house F1Q or AMA B Electric, providing for auto-surfaces (if desired) and short-DT for test flights!

If you already have one of these timers, I believe he offers the function-chips separately for \$12.

Of course, both of these are a little more complicated to setup and operate than a mechanical timer... and if that doesn't work for you, you should be getting Timer-man Hanks superb offering. And I know there are other great timers out there by other cottage manufacturers, such as the Stone-Age E36 timer from BMJR Models or even ZTron's Simple FF timer, which both use variable resistors to set the motor run and DT times.

But if you want a super-light setup for a locked-up ship or a super-flexible one for an auto-surface one, these look to be good bets and best buys (in my book).

Greg **Stewart** in Mississippi





**FREE FLIGHT WITH AN ALTITUDE!  
UPCOMING EVENTS**

<i>DATE</i>	<i>EVENT</i>	<i>FEATURE EVENT</i>
April 28	Winter Coupe Contest	F1G (Coupe), 1/2A E-36 combined, and HLG
<i>May 18</i>	<i>MMM Display</i>	<i>Weisbrod Museum</i>
<i>May 19</i>	<i>MMM Monthly</i>	<i>First Scramble!</i>

**FIRST CLASS**



**IF THIS BOX IS CHECKED, THIS IS YOUR  
LAST ISSUE UNTIL YOU PAY YOUR DUES!**



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80120

**The Magnificent  
Mountain Men**