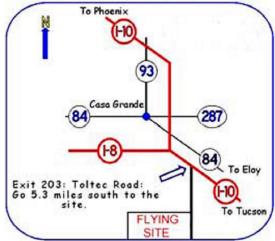
# PHOANX MODEL ARPLANE CUB

# HAVING FUN WITH MODEL AIRPLANES SINCE 1937 VOLUME 15 NUMBER 6 JUNE 2010





#### **NEXT MEETING**

Tuesday June 8<sup>th h</sup>
07:00 PM
Room 09
Granite Reef Senior Center
1700 N. Granite Reef Rd.

#### DAWN PATROL

See schedule inside.

# NEXT CONTEST FALL KICK OFF

Sunday September 19<sup>th</sup> WEBSTER FIELD ELOY

#### **CLUB OFFICERS**

President:
Vice President:
Secretary:
Treasurer:
Newsletter Editor:

Webmaster alan@apetersenpaintings.com

Elmer Nelson (480) 460 1366 Tom Gaylor (480) 892 0338 Bill Sewel (623)-551-8678 Elmer Nelson Steve Riley (505) 615 8112 steveriley@cableone.net Alan Petersen















### PREZ Speaks

WOW . we really had some flying going on at the last contest! Dick Nelson and Steve Hesla put on a flying circus that was really fun to watch. Additionally, there was a lot of flying going on in all of the other categories. CD Dick Strang said it was just fun to sit back and watch the activity. If you missed this one, plan on coming out to the September contest for more of the same.

A tip of the hat goes to all of the ladies that came out to support their valiant flyers! This show of support tells me that our two clubs are in good health. I would also like to give kudos to Brigitte Brocks who never fails to walk the flight line and greet all of the ladies. Thanks Brigitte, it means a lot to everyone.

We recently sent a check from our combined contest account to Reed College, Portland, Oregon in memory of our good friend Roland Lovejoy. Reed College was Rolands Alma Mater.

Just a reminder, summer flying activity continues with the Dawn Patrol events. The schedule is posted here-in. Also, PMAC monthly meetings are cancelled for the months of July and August. We will pick our meeting schedule up again in September. Have a great summer.

Elmer Nelson

# The May 2010 Hotstuff contest report

The May Hotstuff for Arizona Free Flight was held on May 15, 2010.

The weather was excellent, the winds were light all day. It was 66 Degrees at seven A.M. when Dick Nelson flew his first official flight, and when we closed at one thirty, Elmer Nelson flew the last flight, it was 92.

We had eleven entries, who flew 103 official flights. The thermals were typical for Eloy, in May, very large.

The airplane mix was about equal, glider, rubber and power.

The only thing negative, was Al Lidberg put too much air in his compressed air powered plane, and it blew-up, sorry about that Al.

Overall, a good time was had by all. Hopefully all of this years flyers will be back for next year, Plus, I hope some new faces as well.

I enjoyed it,

your CD,

Dick Strang

# AMA/Classic Gas

(All engine classes)

Points

| Contestant Name | Event         | Flt 1 | Flt 2 | Flt3 | FO 1 | FO 2 | Total Time | Time | Maxes | Flights | Total |
|-----------------|---------------|-------|-------|------|------|------|------------|------|-------|---------|-------|
| Dick Nelson     | 1/2 A Classic | 180   | 180   | 180  | 180  | 116  | 836        | 14   | 20    | 10      | 44    |
| Steve Hesla     | B Classic     | 180   | 180   | 180  | 180  | 113  | 833        | 12   | 20    | 10      | 42    |
| Steve Hesla     | B AMA         | 180   | 180   | 180  | 62   |      | 602        | 10   | 15    | 10      | 35    |
| Steve Hesla     | A AMA         | 180   | 180   | 156  |      |      | 516        | 8    | 10    | 10      | 28    |
| Steve Hesla     | A Classic     | 146   | 162   | 180  |      |      | 488        | 6    | 5     | 10      | 21    |
| Jim Kruse       | A Classic     | 180   | 113   | 111  |      |      | 404        | 4    | 5     | 10      | 19    |
| Dick Nelson     | C AMA         | 152   | 29    |      |      |      | 181        | 2    | 0     | 6       | 8     |

# Nostalgia Gas/OT Gas Combo

Points

(All engine classes)

| Contestant Name | Event        | Fit 1 | Flt 2 | Flt3 | FO 1 | FO 2 | Total Time | Time | Maxes | Flights | Total |
|-----------------|--------------|-------|-------|------|------|------|------------|------|-------|---------|-------|
| Dick Nelson     | A Nos        | 180   | 180   | 158  |      |      | 518        | 20   | 10    | 10      | 40    |
| Dick Nelson     | C Nos        | 180   | 144   | 165  |      |      | 489        | 18   | 5     | 10      | 33    |
| Dick Nelson     | OT C Gas     | 159   | 180   | 130  |      |      | 469        | 16   | 5     | 10      | 31    |
| Dick Nelson     | OT C Gas     | 93    | 151   | 180  |      |      | 424        | 14   | 5     | 10      | 29    |
| Dick Nelson     | OT A Fus Gas | 83    | 180   | 125  |      |      | 388        | 12   | 5     | 10      | 27    |
| Tom Gaylor      | 1/2 A Nos    | 180   | 61    | 29   |      |      | 270        | 6    | 5     | 10      | 21    |
| Elmer Nelson    | A Nos        | 133   | 82    | 165  |      |      | 380        | 10   | 0     | 10      | 20    |
| Steve Hesla     | A Nos        | 115   | 96    | 98   |      |      | 309        | 8    | 0     | 10      | 18    |
| Dick Nelson     | Early 1/2A   | 63    | 74    | 63   |      |      | 200        | 4    | 0     | 10      | 14    |
| Steve Hesla     | C Nos        | 102   | 63    |      |      |      | 165        | 2    | 0     | 6       | 8     |

#### 2 Minute Combo

Points

(F1G/H/J, .020 Replica, P-30, P-20, Rocket, Embryo

| Contestant Name | Event  | Flt 1 | Flt 2 | Flt3 | FO 1 | <b>Total Time</b> | Time | Maxes | Flights | Total |
|-----------------|--------|-------|-------|------|------|-------------------|------|-------|---------|-------|
| Tom Gaylor      | P-30   | 120   | 120   | 120  |      | 360               | 8    | 10    | 10      | 28    |
| Jean Andrews    | Embryo | 120   | 118   | 68   |      | 306               | 6    | 5     | 10      | 21    |
| Ben Nead        | Rocket | 92    | 95    | 95   |      | 282               | 4    | 0     | 10      | 14    |
| Elmer Nelson    | P-30   | 73    | 87    | 90   |      | 250               | 2    | 0     | 10      | 12    |

#### 3 MinRubber/Glider Combo

**Points** 

(Mulvihill, Moffett, OT Rubber, Nos Wake/Rubber, Classic Tow)

| Contestant Name | Event          | Flt 1 | Flt 2 | FH3 | FO 1 | Total Time | Time | Maxes | Flights | Total |
|-----------------|----------------|-------|-------|-----|------|------------|------|-------|---------|-------|
| Jean Andrews    | Nos Rubber     | 120   | 180   | 205 |      | 505        | 14   | 10    | 10      | 34    |
| Elmer Nelson    | OT LG Stick    | 118   | 180   | 180 |      | 478        | 12   | 10    | 10      | 32    |
| Enis Pecenkovic | Classic Glider | 120   | 57    | 240 |      | 417        | 10   | 10    | 10      | 30    |
| Tom Gaylor      | Nos Rubber     | 100   | 117   | 180 |      | 397        | 8    | 5     | 10      | 23    |
| Kent Prescott   | OT SM Cabin    | 61    | 180   | 106 |      | 347        | 6    | 5     | 10      | 21    |
| Bruce Grawburg  | OT SM Cabin    | 39    | 32    | 39  |      | 110        | 4    | 0     | 10      | 14    |
| Kent Prescott   | OT LG Stick    | 69    |       |     |      | 69         | 2    | 0     | 3       | 5     |
|                 |                |       |       |     |      |            |      |       |         |       |

# 3 Minute FAI Combo

**Points** 

(F1A/B/C/P/Q)

| Contestant Name | Event | Flt 1 | Flt 2 | Flt3 | FO 1 | 1 | Total Time | Time | Maxes | Flights | Total |
|-----------------|-------|-------|-------|------|------|---|------------|------|-------|---------|-------|
| Enis Pecenkovic | F1A   | 180   | 180   | 180  | 126  |   | 666        | 4    | 15    | 10      | 29    |
| Peter Brocks    | F1A   | 142   | 88    | 89   |      |   | 319        | 2    | 0     | 10      | 12    |

### Catapult /HL Glider Combo

**Points** 

| Contestant Name | Event | Flt 1 | Flt 2 | Flt3 | Flt 4 | Total Time | Time | Maxes | Flights | Total |
|-----------------|-------|-------|-------|------|-------|------------|------|-------|---------|-------|
| Enes Pecenkovic | HLG   | 50    | 120   | 75   |       | 245        | 4    | 5     | 10      | 19    |
| Kent Prescott   | HLG   | 51    | 16    | 16   |       | 83         | 2    | 0     | 10      | 12    |

Junior Totals

| _ |     |   |   |
|---|-----|---|---|
| _ | ^ 1 | n | • |
|   |     |   |   |

| Contestant Name | Event | Flt 1 | Flt 2 | Flt3 | Flt 4 | Total Time | Time | Maxes | Flights | Total |
|-----------------|-------|-------|-------|------|-------|------------|------|-------|---------|-------|
|                 |       |       |       |      |       |            |      |       |         |       |

2010 PMAC-TFFC

Contest Category Ladder

|                     |  | Category La |           | 5/45/0040 | TOTAL |
|---------------------|--|-------------|-----------|-----------|-------|
|                     | 221/2010   | 3/20/2010   | 4/18/2010 | 5/15/2010 | TOTAL |
| AMA/CL Gas          |  |             |           | 400       |       |
| Steve Hesla         |  | 40          | 125       | 126       | 291   |
| Dick Nelson         |  | 14          | 0         | 52        | 66    |
| Jim Kruse           |  |             |           | 19        | 19    |
| Nos/OT Gas          |  |             |           |           |       |
| Dick Nelson         | 6  | 36          |           | 174       | 216   |
| Steve Hesla         |  |             | 26        | 26        | 52    |
| Tom Miller          |  |             | 17        |           | 17    |
| Ralph Hotz          |  |             | 15        |           | 15    |
| Tom Gaylor          |  |             |           | 21        |       |
| Elmer Nelson        |  |             |           | 20        |       |
| 3 Minute Rub/Glide  | r Combo  |             |           |           |       |
| Jean Andrews        |  | 35          | 20        | 34        | 89    |
| Tom Gaylor          |  | 21          | 18        | 23        | 62    |
| Kent Prescott       |  |             | 32        | 26        | 58    |
| Elmer Nelson        |  |             | 24        | 32        | 56    |
| Bruce Grawburg      |  |             | 31        | 14        | 45    |
| Enis Pecenkovic     |  |             | 14        | 30        | 44    |
| Dick Strang         |  |             | 14        |           | 14    |
| Roland Lovejoy      |  | 13          |           |           | 13    |
| 3 Minute FAI Combo  | T  | I           |           |           |       |
| Enis Pecenkovic     |  | 17          | 31        | 29        | 77    |
| Peter Brocks        |  |             | 24        | 12        |       |
| Tom loerger         |  |             | 33        |           | 33    |
| Jim Farmer          |  |             | 18        |           | 18    |
| 2 Minute Combo      | Т  | T           | ı         |           |       |
| Tom Gaylor          | -  | 21          | 41        | 28        | 90    |
| Jean Andrews        | 6  |             |           | 21        |       |
| Elmer Nelson        | <del>                                     </del> | 23          |           | 12        |       |
| Ben Nead            | +  | 14          |           | 14        |       |
| Mike Bower          |  |             | 18        |           | 18    |
| Dick Strang         |  |             | 14        |           | 14    |
|                     |  |             |           |           |       |
| Cat/HL Glider Combo | T  |             | T         |           |       |
| Enes Pecenkovic     | 18   | 16          | 16        | 19        | 69    |
| Elmer Nelson        | 20   | 14          | 12        |           | 46    |
| Kent Prescott       |  | 6           |           |           | 32    |

#### 2010 Overall Contest Ladder Summary

|                      | 2/21/2010 | 3/20/2010 | 4/18/2010 | 5/15/2010 | Total |
|----------------------|-----------|-----------|-----------|-----------|-------|
| Steve Hesla          |           | 40        | 151       | 154       | 345   |
| Dick Nelson          | 6         | 50        |           | 226       | 282   |
| Enes Pecenkovic      | 18        | 33        | 61        | 78        | 190   |
| Elmer Nelson         | 20        | 37        | 63        | 64        | 184   |
| Tom Gaylor           |           | 42        | 59        | 72        | 173   |
| Jean Andrews         | 6         | 47        | 54        | 55        | 162   |
| Kent Prescott        |           | 6         | 46        | 38        | 90    |
| Bruce Grawburg       |           |           | 31        | 14        | 45    |
| Peter Brocks         |           |           | 24        | 12        | 36    |
| Tom loerger          |           |           | 33        |           | 33    |
| Dick Strang          |           |           | 28        |           | 28    |
| Ben Nead             |           | 14        |           | 14        | 28    |
| Jim Kruse            |           |           |           | 19        | 19    |
| Mike Bower           |           |           | 18        |           | 18    |
| Jim Farmer           |           |           | 18        |           | 18    |
| Tom Miller           |           |           | 17        |           | 17    |
| Ralph Hotz           |           |           | 15        |           | 15    |
| Roland Lovejoy       |           | 13        |           |           | 13    |
| Chuck Stewart        |           |           |           |           | 0     |
| Dan Sobala           |           |           |           |           | 0     |
| Frank Roberge        |           |           |           |           | 0     |
| Joe Ritchey          |           |           |           |           | 0     |
| Mike Roseberry       |           |           |           |           | 0     |
| Nicholas Harris (jr) |           |           |           |           | 0     |

# PMAC DAWN PATROL at ELOY

Fly until 9-10AM, then adjourn for breakfast.

|        | Saturday | Sunday |
|--------|----------|--------|
| June   | 5        |        |
|        |          | 20     |
| July   | 3        |        |
|        |          | 18     |
| August | 1        |        |
|        |          | 14     |
|        | 28       |        |

OK – there are 7 dates to plan around, and to expect to see and fly with others this summer. See you there!



Bruce Grawburg. His new Sparky model flew for the first time and flew very well. This is the first model he has built since getting active after many years off.

Dick Strang was the Contest Director for the May contest. Good job Dick, thanks.





Steve Hesla. He flew six models! He is a real competitor and is giving Dick Nelson a real run.

His wife is coming and timing for him.

Elmer Nelson with his F.A.I. Lucky Lindy.

Elmer has worked hard for this club for years. At the end of the day get him a cold one. He has earned it. He likes Corona with a twist of lime.

Photos by Tom Gaylor



## Wing Construction: Put on your bibs and let's talk ribs!

This is one of a series of articles by **Mike Isermann** on weight saving ideas. While Mike is obviously talking about FAC

models, there are ideas here that everyone can use.

Wege not talking BBQ pork ribs here wege talking sliced, cracked and slab-sided ribs.

That s slab-side not a slab oqribs. I tell you I need a bib when I see some of the beautiful wing structures that are produced when sliced and cracked ribs are employed. I drool with envy! It s without wonder that a number of the consistent winners at FAC events have done so well with these great weightsaving/ structurally sound techniques. Im an old slab-side rib user but have slowly been moving to the other side of the fence. Now dong get me wrong, Im not saying that slab-sided ribs are no good or even a thing of the past, (although they might be for some) Im saying be open minded here. So what are the benefits and the drawbacks of each system? Let examine the different types of construction and then you can decide.

Id start with the old standby, slab-sided ribs.

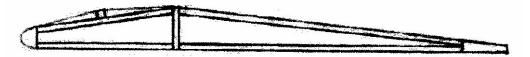


This method is the one most of us are familiar with and have used for at least part of our modeling careers.

Not a bad way to go. You are afforded an infinite number of airfoil possibilities and a solid rib gives you reasonable strength as long as you dong use too thin and/or too light of wood. One of the problems building with slab-sided ribs is that your spar notches seldom line up. This is commonplace in kit wood. If you do not take the time to straighten them out you will build reflex stresses into the wing that will show up after

covering. Ever wonder why no matter what you do, some warps keep coming back? Try sanding your notches in after construction. Second drawback: Weight. Someone told me a long time ago that when building a model airplane you should try to build it as light as you can and when you think you have achieved just that, cut the weight by another 20%. Face it, wood is weight. So it stands to reason that any reduction in structural mass will reduce weight. Some people cut holes in ribs and that helps, but is there a need for all that wood? Bottom line is that weight is the enemy and if you can save a few tenths of a gram here and there, before you know it you are dropping grams translating into lower wing loadings. And that a good thing!

#### Letos move on to cracked ribs



Crack rib construction utilizes a full chord-depth spar that is notched top and bottom at each rib position to accept 1/16+X1/16+square balsa strips. The top strip is %racked+at the spar and then glued in three places;

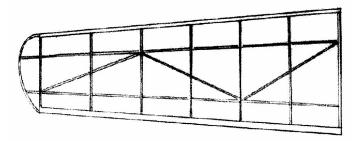
the leading edge, Trailing edge and the spar notch. This leaves an airfoil profile that looks more like a wedge than an aerodynamic shape. The addition of a turbulator spar adds some shape to the business end of your airfoil; however, the drag and lift coefficient is not going to be optimal. The shape does produce a lifting wing but I think the air is dirtier than that of a smooth camber airfoil. Dirty air is just another word for drag. Thin wings (10% chords or less) seem to be best when using the cracked rib approach. I have seen plenty of planes with these wing designs fly away. You cand argue with success. But then love seen thermals lift tents 100 ft into the air. The true test of an airfoil is in dead air. If you choose this form of construction you will yield a low weight structure that is reasonably strong. Drawbacks include less efficient wing profile and a very limited selection of airfoils. Airfoil design variables will be limited to maximum chord height or camber height and chord length. A flat bottom profile with strait taper from maximum chord/camber height leaves a lot to be desired if you like to try different airfoil designs. You're kinda stuck with a modified Clark Y. Some people swear by certain airfoils and some say Reynolds Numbers are too low to matter at the scale we work

with. I will let you be the judge.

Now letos look at sliced ribs.



(I saved the best for last.) Sliced rib construction seems to take the best from both worlds. The easiest way to make a sliced rib is to trim the camber off the top of a slab-sided rib. Continuing development of this technique has yielded some innovative structural improvements. 1/32+balsa sheet wood is now being laminated on forms to create tried and tested airfoils. These laminations make for a stiffer structure and they allow the builder to cut uniform ribs. Sliced rib construction often uses two full-depth spars located at about 30% and 70% chord. The spars are not usually notched, but I like to do it that way. Strips are laid at rib positions between the leading edge and trailing edge of the wings. The spars are dropped in and then cambered ribs that have been sliced from the lamination are glued over the spars completing the profile.



Geodesic cross-bracing is then installed from the nose radius of the root rib to the rear taper of the third rib passing though the center of the second rib. Bracing is installed in an alternating pattern (much like a truss) out to the tip rib. The rigidity of this type of construction is truly wonderful and talk about light! You can try more airfoil designs including semi-symmetrical types. Iqm not sure I would try undercambered designs, but there is no doubt someone is doing it. That would be the only drawback I can see other than the time factor. This form of construction takes twice as long to build. If time is a concern then this construction technique may not be for you. All of the construction methods we looked at are sound systems that offer different options as well as differing results. Iom sure there are other pros and cons that can be thrown in the mix. These traits are what I look for when choosing a method of construction. Each aircraft is different and one system may suit your subject better than another. Hybrids are also possible. I combined slab-sided rib leading edges with cracked rib tapers on my latest aircraft the Blohm and Voss P.193.01. The possibilities are truly endless. Let your imagination run free. Give sliced or cracked ribs a try. You too will need a bib when you see how light and

strong your structures come out. My friend Bruce Findley knows all about the benefits of slab-sided ribs, smoked ribs, cracked ribs, marinated ribs, sliced ribs... I bet he is slicing some right now! Hey Bruce, you got some BBQ sauce on your cheek thereõ

Light wing loadings to all, OOS Mike



#### The Chopper

Gussets. Ya gotta have the darn things but they are a bit tedious to cut out.

This neat little tool sure speeds it up. Here is mine set up to cut some small ones. Make the cut, flip the stock over, advance it and make another cut. They are all 90 degrees and the same size. The width of the stock sets the size of the gusset.

This tool also comes with plastic stops for other angles. With the 90 degree stop you can cut fuselage cross pieces that are all exactly the same length.

Model railroad shops usually have them or order one direct. About \$30.00

#### Steve

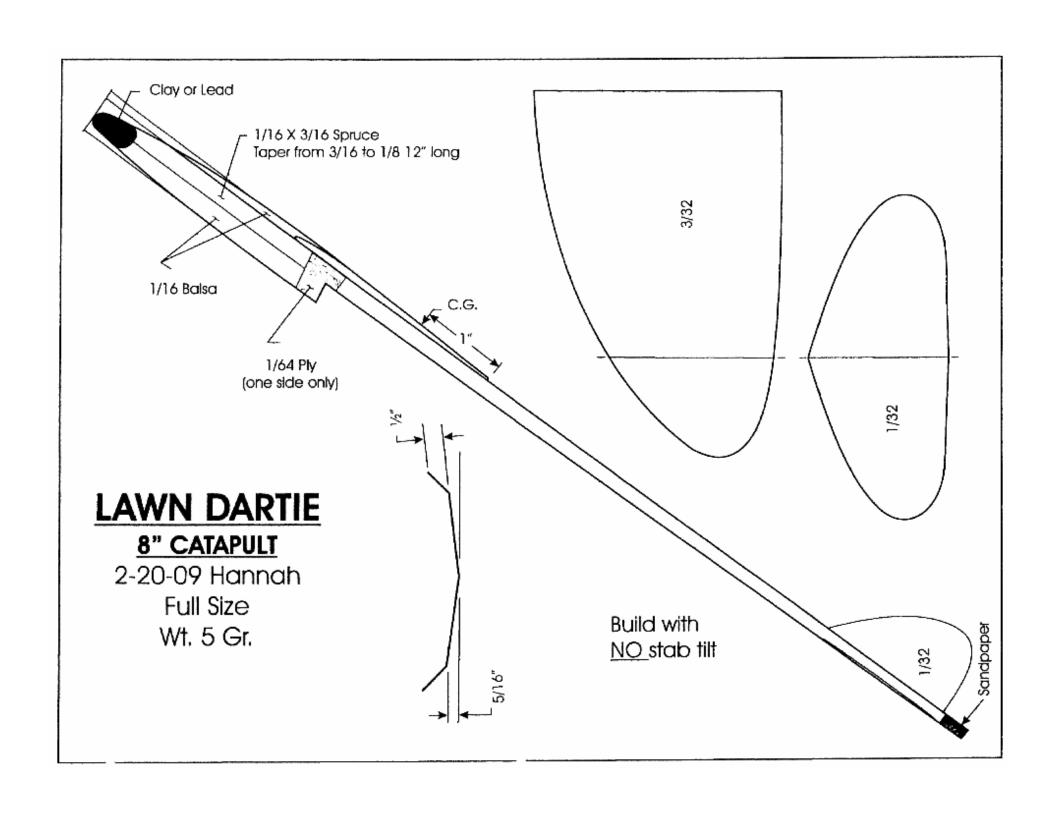


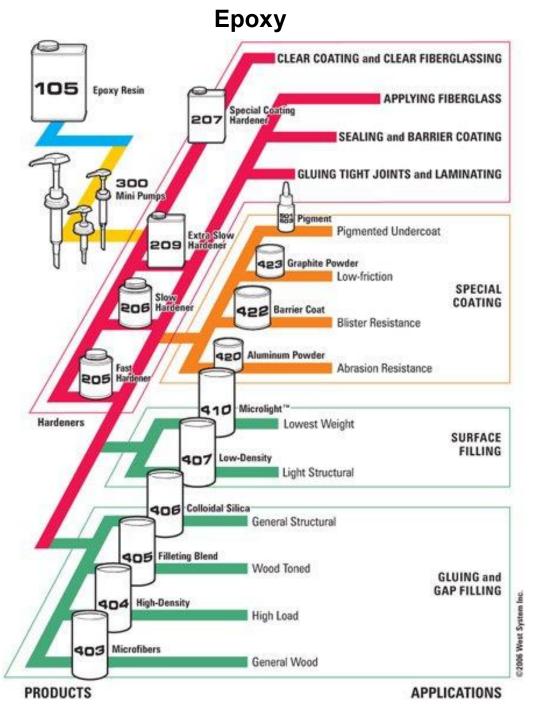
Northwest Short Line http://www.nwsl.com

Telephone: (406)-375-7555

PO Box 1349

Hamilton, MT 59840 USA





West System (Gougeon Brothers, Inc ) makes a variety of marine epoxy products. Even though it is made for the marine industry it even sold for repair of full sized aircraft. They make a great manual to help you pick the right product for your application.

This chart shows the product line including some handy fillers. The dispenser pumps automatically give you the correct mix of resin to hardener.

The full line is available at West Marine stores www.westmarine.com/ or a limited line at Aircraft Spruce. www.aircraftspruce.com/ love seen it in a few hobby shops too. I have used it for years and have never been disappointed.

Steve

Start Time May-Sept: 7:00 AM All others: 8:00 AM

#### 2010 PMAC/TFFC CONTEST SCHEDULE

December 18, 2009

|                           | Nat'l Cup    | Nat'l Cup   | Nat'l Cup | Nat'l Cup | Nat'l Cup  | Nat'l Cup  | Nat'l Cup  | America &   | National Cup   |
|---------------------------|--------------|-------------|-----------|-----------|--|------------|------------|-------------|--|
|                           | President's  | Spring      | I-10      | Hot       | Fall   | Ghost      | Turkey     | Arizona F   | ree Flight   |
|                           | Cup          | Break       | Challenge | Stuff     | Kick-off   | Riders     | Shoot      | Champ       | ionships   |
|                           | Sunday       | Saturday    | Sunday    | Saturday  | Sunday   | Saturday   | Sunday     | Saturday    | Sunday   |
|                           | 2/21/2010    | 3/20/2010   | 4/18/2010 | 5/15/2010 | 9/19/2010  | 10/23/2010 | 11/14/2010 | 12/4/2010   | 12/5/2010  |
| GAS/ELECTRIC EVENTS       |              |             |           |           |  |            |            | 8           | 7  |
| AMA ½ A GAS               | (Jr) (SO)    | (Jr) (SO)   | (Jr) (SO) | (Jr) (SO) | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)*  |  |
| AMA A/B GAS               | Х            | Х           | Х         | Х         | Х  | Х          | Х          | Α           | В  |
| AMA C/D GAS               | Х            | Х           | Х         | Х         | Х  | Х          | Х          | D           | С  |
| AMA Classic 1/2A Gas      | (Jr) (SO)    | (Jr) (SO)   | (Jr) (SO) | (Jr) (SO) | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)  |             | (Jr) (SO)*   |
| AMA Classic AB Combo      | Х            | Х           | Х         | Х         | Х  | Х          | Х          | AB          |  |
| AMA Classic CD Combo      | Х            | Х           | Х         | Х         | Х  | Х          | ×          |             | CD   |
| NOS ¼ A                   | Х            | Х           | Х         | Х         | Х  | Х          | ×          | Х           |  |
| NOS ½ A GAS               | Х            | Х           | Х         | Х         | Х  | Х          | X          |             | X  |
| NOS A GAS                 | Х            | Х           | Х         | Х         | Х  | Х          | X          | Х           |  |
| NOS B/C GAS Comb o        | Х            | Х           | Х         | Х         | Х  | X          | Х          | С           | В  |
| NOS Early 1/2 A Gas       | Х            | Х           | Х         | Х         | Х  | Х          | Х          |             | X  |
| OT .020 REPLICA           | Х            | Х           | Х         | Х         | Х  | Х          | Х          | Х           |  |
| OT GAS COMBO              | Х            | Х           | Х         | Х         | Х  | Х          | Х          |             | X  |
| ELECTRIC COMBO            | Х            | Х           | Х         | Х         | Х  | Х          | X          | Х           |  |
| Rubber Events             |              |             |           |           | - Control of the Cont |            |            | 4           | 3  |
| P-30                      | (Jr) (SO)    | (Jr) (SO)   | (Jr) (SO) | (Jr) (SO) | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)   |  |
| NOS RUB, Nos Wake, & Comb | Х            | Х           | Х         | Х         | Х  | Х          | X          | Nos Wake    | Nos Rub  |
| OT Fus Combo Rubber       | Х            | Х           | Х         | Х         | Х  | Х          | Х          | Х           |  |
| OT Stick Combo Rubber     | Х            | Х           | Х         | Х         | Х  | Х          | X          |             | Х  |
| MULVIHILL                 | Х            | Х           | Х         | Х         | Х  | Х          | Х          |             | Х  |
| MOFFETT                   | Х            | Х           | Х         | Х         | Х  | Х          | Х          | Х           |  |
| FAI Events                |              |             |           |           |  |            |            | 3           | 3  |
| F1A/F1B/F1C/F1P/F1Q Combo | Х            | Х           | X         | X         | Х  | Х          | Х          | F1A,B,C,P,Q |  |
| F1G/F1H/F1J Combo         | Х            | Х           | Х         | Х         | Х  | Х          | Х          |             | F1G,F1H,F1J  |
| GLIDER EVENTS             |              |             |           |           |  |            |            | 1           | 2  |
| H. L. GLIDER              | (Jr) (SO)    | (Jr) (SO)   | (Jr) (SO) | (Jr) (SO) | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)   | Mini-Ania Para Angara Ania Angara  |
| CAT GLIDER                | (Jr) (SO)    | (Jr) (SO)   | (JR)(SO)  | (Jr) (SO) | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)  |             | (Jr) (SO)  |
| CLASSIC GLIDER            | (Jr) (SO)    | (Jr) (SO)   | (Jr) (SO) | (Jr) (SO) | (Jr) (SO)  | (Jr) (SO)  | (Jr) (SO)  |             | (Jr) (SO)  |
| Contest Directors         | Lichtenberge | Mike Keller | Brocks    | Strang    | D. Nelson  | Loeffler   | Andrews    | E.Nelsor    | THE RESIDENCE OF THE PARTY OF T |
| Contest Classification    | Α            | Α           | Α         | Α         | Α  | Α          | Α          | AA          | AA   |

Note: All one day contests will be flown in combined categories. Anything you bring to the field can be flown in one of 6 categories

<sup>\*</sup>For national cup points, junior AMA & Classic 1/2A Gas are combined

# The 31st Magnificent Mountain **July 9,10,11,2010** Denver, Colorado

July 9(Friday)-5 rounds of F1E (America's Cup sanctioned)

July 10 & 11 (Saturday & Sunday)—7rounds each <u>day</u> of F1A, F1B, F1C, F1P, F1Q—(14 rounds total) 3 rounds each morning of F1G, F1H, F1J, F1K, Vintage FAI Power—(6 rounds total)

|  | Saturday, July 10 |             | Sunday, July 11          |             |
|--|-------------------|-------------|--------------------------|-------------|
|  | *Round 1          | 0730 - 0900 |                          | 0730 - 0900 |
|  | *Round 2          | 0900 - 1030 | *Round 9                 | 0900 - 1030 |
|  | *Round 3          | 1030 - 1200 | *Round 10                | 1030 - 1200 |
|  | Round 4           | 1200 - 1300 | Round 11                 | 1200 - 1300 |
|  | Round 5           | 1300 - 1400 | Round 12                 | 1300 - 1400 |
|  | Round 6           | 1400 - 1500 | Round 13                 | 1400 - 1500 |
|  | Round 7           | 1500 - 1600 | Round 14                 | 1500 - 1600 |
|  |                   |             | Flyoffs start at 1630 on |             |
|  |                   |             | Sunday                   |             |

\*Rounds for F1G, H, J, K

Hartill Trophy Events - F1A, B, C, G, H, J

Bonus Events - AMA/NFFS rules apply, no rounds:

Saturday, July 10

CLG, P-30, Fast Gas Combo\*, Slow Gas Combo\*\*, OT Rubber Combo, Mulvihill\*\*\*

Sunday, July 11
HLG, Classic Towline, Fast Gas Combo\*, Slow Gas Combo\*\*,
Nos Rubber/Wake Combo, Moffett\*\*\*

\*Fast Gas Combo: 1/2A, A, B, C, D, 1/2A Classic (Cl), AB Cl, CD Cl. Contestants may fly any/all events on either/both days and take their best score for awards purposes. All scores will be kept separately for NC points purposes. All flights for an individual event must finish on the same day started.

\*\*Slow Gas Combo: 1/4A Nostalgia (Nos), Early 1/2A Nos, 1/2A Nos, Nos A, Nos B, Nos C, MMM Slow Open Power (SOP). Cat Il engine runs and maxes. 180 max and 12 sec engine runs for Nos and SOP. Contestants may fly any/all events on either/both days. Only their best score will count for awards purposes but all scores will be kept separately for the purpose of NC points. Must finish all flights for each individual event on the same day started.

\*\*\*No awards for these events, but NC points will be earned. Fly either day, but you must finish all fights on same day started.

Check the MMM website for date, time, and location. www.themmmclub.com

#### Accommodations:

Check the MMM website for details. www.themmmclub.com

#### Miscellaneous:

Free RV and tent camping on the field, no hookups or dumping. Porta-potty permanently on site.

#### Directions to the Field:

(From the east side of Denver) The field entrance is located on Quincy Rd. about 7 miles east of its intersection with the look for a "T" intersection with Watkins Road. Now precede one more mile east on Quincy and slow down when you see a plant entrance on your left. Now look to the right and you will see the MMM sign and gate. If you find the gate locked, please re-lock it behind you.

Please Note: The E-470 toll road is cashless. A photo will be automatically taken of your front and rear license plates. A bill for the toll will later be mailed to the registered owner of

#### For more information contact:

Jerry Murphy, 719-685-3766 <jb\_murphy@msn.com>

Marc Sisk, 719-433-2115 <msisk916@comcast.net>





#### Detach, Fill Out, and Mail to:

Jerry Murphy, 9 Via Escondido Valle, Manitou Springs, Colorado 80829

Please include a photocopy of your AMA license.
Pre-Entries (that I receive by July 1st) will save you \$10:
\$20 per event for FAI, and \$5 per event for non FAI. \$25 maximum fee.

At-Field Fee Payment: \$25 per event for FAI, and \$10 per event for non FAI. \$35 maximum fee.

| NAME                   | AMA #                           |
|------------------------|---------------------------------|
| ADDRESS                |                                 |
| CITY / STATE / ZIP     |                                 |
| E-MAIL                 | CELL #                          |
| Circle events entered: |                                 |
| FAI: F1A, F1B, F1C, F1 | E, F1G, F1H, F1J, F1K, F1P, F1Q |
| Clider: HIG CLG Clas   | sic Towline                     |

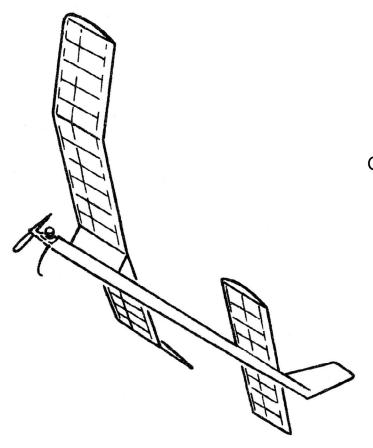
Rubber: P-30, OT Rubber Combo, Nostalgia Rubber/Wake Combo, Mulvihill, Moffett

Gas: 1/2A, A, B, C, D, 1/2A Classic, AB Classic, CD Classic, 1/4A Nostalgia, Early 1/2A Nostalgia, 1/2A Nostalgia, Nostalgia A, Nostalgia B, Nostalgia C, MMM Slow Open Power, Vintage FAI Power



mificent Mountain Men 'a Free Flight Modeling Heritage in the Rocky Mountain West"





# **NEXT MEETING**

Tuesday June 8<sup>th</sup>
07:00 PM
Room 09
Granite Reef Senior Center
1700 N. Granite Reef Rd.

## **DAWN PATROL**

See schedule inside

# **NEXT CONTEST**

Fall Kick Off Sunday September 19<sup>th</sup>

Webster Field Eloy

