

EL TORBELLINO

NEWSLETTER OF SAN DIEGO ORBITEERS FREE FLIGHT CLUB

JULY 2018



The Prez's Corner – Don Bartick

The Hutchison's rented a box truck and a container to transport and store the vast collection of Harry Steinmetz FF material that was donated to the Orbiteers and Scale Staffel clubs. With the help of Mark Chomyn, Mike Pekelny, John and Kathy Hutchison, Don and Arline Bartick along with David Steinmetz, we got everything loaded, transported and unloaded at the Hutchison's. Thanks to Howard Haupt who put out 2 notices for the sale. The sale was conducted on July 14th as scheduled. It was very successful. We want to thank everyone who came. Your support was unbelievable. So much of Harry's FF material, planes, parts, etc. are now in the hands of Orbiteers and Scale Staffel club members to experience new life. Current proceeds amounted to \$1,407.61. Subtracting \$345.49 for expenses leaves each club's share of Harry's donation to be \$531.06. A few members have reserved items and haven't giving their donations yet. Therefore the total proceeds will increase. Once again, thank you Harry Steinmetz for your wonderful donation and thank you to the organizers and sales staff who put in many hours to make it happen. They are John and Kathy Hutchison, Don and Arline Bartick, Mike Pykelny, Mark Chomyn, Greg Hutchison and Harry's son; David Steinmetz.

The Memorial service for Scale Staffel William Scott's wife Ann, held at the OurLady of Grace Catholic Church was beautiful. Please keep William in your prayers as he goes through a very trying period in his life.

The June outdoor contest was well attended. Stan Buddenbalm provided a stash of

catapult glider's for purchase at \$20 each. All proceeds less the entry fee was donated by Stan to be equally distributed between the Orbiteers and Scale Staffel's. His motive was to increase participation in the monthly glider competition. Thank you Stan.

There will not be an outdoor contest July and August because of normally high temperatures during this period. Contest will resume in September. Get busy and build.

Membership continues to increase. Please welcome Lance and John Powers.

That's a wrap for now.

Remember: "Motivation determines what you do. Attitude determines how well you do it."

-Lou Holtz



Harry Steinmetz with son David (on left)

Photo by Arline Bartick

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ORBITEERS MEMBERSHIP DUES

Annual Membership - \$20
Lifetime Membership - \$250
Non-Member Newsletter Subscription - \$15
Junior Members 16 years old or younger - Free

Submit Dues to Club Treasurer:

Howard Haupt
3860 Ecochee Avenue
San Diego, CA 92117-4622

THE FINE PRINT THE FINE PRINT

El Torbellino is the official newsletter of the San Diego Orbiteers, an Academy of Model Aeronautics (AMA) Charter Club (#1113) and a California not for Profit Corporation. This newsletter is sent monthly to all paid members, selected exchange and magazine editors. Non-Members may subscribe at \$15.00 per year within the U.S.A., offshore price will be adjusted to reflect the postage required. Materials from El Torbellino may be reproduced on an unlimited basis by other publications, but proper credit is requested.

ORBITEER WEB SITE

www.SanDiegoOrbiteers.com

Webmaster: Kathy McLaughlin

Hank Ketchum's Dennis the Menace



"THE WAY I SEE IT...BY THE TIME YOU START ACTING YOUR AGE, YOU WON'T EVEN BE IT ANYMORE."

SPECIAL NOTICE REGARDING P-18 EVENT

The AMA's provisional P-18 event has already been flown five times by the club in 2018. The P-18 event has turned out to be quite popular and very competitive. As stated in previously published minutes of the meeting of the club's Board of Directors, on April 11, 2018 the Board voted: 1) to make P-18 an official indoor rotation event; and 2) that moving forward a flier's placement in the event would earn points toward the club's annual indoor championship. CD John Hutchison made an important verbal announcement of the following at the conclusion of the June 3, 2018 indoor contest. At the P-18 event to be held on September 2, 2018 at Grossmont Junior College each P-18 model will be weighed to ensure that it does not weigh less than the 7.5 gram minimum weight allowed under the AMA rules. The CD may also do a spot inspection for compliance with the covering, dimension, and/or prop limitations of the AMA rules for the P-18 event. Please make sure that your P-18 model(s) is/are rule compliant before the September 2, 2018 contest. Here are the P-18 rules:

25. P-18 Provisional (for event 227)

25.1. General

Except for the specific rules that apply to this event, the rules for free flight rubber hand launched stick shall apply.

25.2.

The model shall be a rubber powered monoplane covered with either tissue or plastic shopping bag material.

25.3.

The wing shall not exceed 4.5 inch chord and projected span of 18 inches. Horizontal stabilizer shall not exceed maximum span of 9 inches with a maximum chord of 3.5 inches. Maximum overall length, including the propeller shall not exceed 18 inches.

25.4.

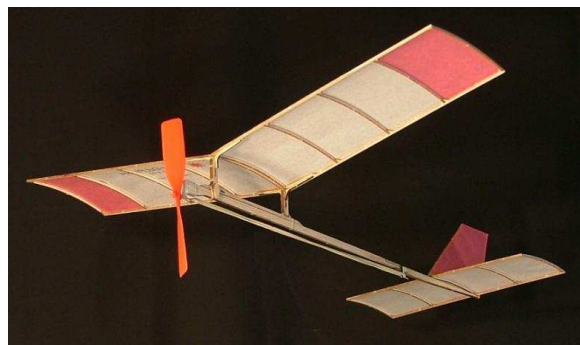
The propeller shall be an unmodified commercially available plastic prop with a nominally maximum diameter of 6". If the propeller is advertised as being a 6" unit, it is acceptable for this event. Weight may be added for balancing.

25.5.

The maximum hook to hook distance shall not exceed 10 inches.

25.6.

The minimum weight of the completed model, less rubber, shall be 7.5 grams.



San Diego Orbiteers - Outdoor Contest Results - June 24, 2018 - Perris, CA



Old Timer Rubber/Nostalgia Rubber

<u>Flier</u>	<u>3 flights</u>			<u>Total</u>	<u>Rank</u>
Mark Chomyn	120	120	120	360	1
Bernie Crow	94	120	43	257	2
John Hutchison	42	43	120	205	3
Mike Pykelny	52	60	62	174	4

Power - E-36

<u>Flier</u>	<u>3 flights</u>			<u>Total</u>	<u>Rank</u>
Stan Buddenbohm	120	120	107	347	1
Clint Brooks	120	96	118	334	2
Ralph Ray	120	120	63	303	3
Greg Hutchison	63	43	51	157	4

Glider

<u>Flier</u>	<u>Best 3/6 flights</u>			<u>Fly Off</u>	<u>Total</u>	<u>Rank</u>
Buddenbohm (HLG)	120	120	120	120	480	1
Tim Batiuk (HLG)	120	120	120	64	424	2
Tim Batiuk (CLG)	120	120	120	DNF	360	N/A
Clint Brooks (HLG)	90	117	92	N/A	299	3
Tim Batiuk (TOW)	96	61	71	N/A	228	N/A
G. Hutchison (CLG)	62	41	120	N/A	223	4
John Powers (CLG)	43	27	27	N/A	97	5
Don Bartick (CLG)	32	30	25	N/A	87	6

At the June 24th SDO contest in Perris, CA Free Flyers were able to purchase an expertly crafted Catapult Glider donated by Stan Buddenbohm. Proceeds went to the Orbiteers. Recipients now have competitive airplanes. Unfortunately, Mike Pykelny and Greg Hutchison had flyaway's. Good fun while it lasted. Thanks Stan for your contribution to both the flyers and Orbiteers. - M.Pykelny



Mark Chomyn



Stan Buddenbohm
(File photos by Arline Bartick)



Tim Batic

**San Diego Orbiteers - Club Points for contests
held Jan 1 - June 30, 2018**



OUTDOOR EVENTS

1. Old Time Rubber/Nostalgia Rubber

Mark Chomyn	5
John Hutchison	5
Mike Pykelny	3

2. Power

Greg Hutchison	3
Mike Pykelny	3

3. Glider

Greg Hutchison	7
Mark Chomyn	2
John Hutchison	1
Don Bartick	1

4. P-30

Greg Hutchison	10
Don Bartick	8
Mike Jester	7
Mark Chomyn	6
Mike Pykelny	5
John Hutchison	4
Don Brent	3
C. M. Kim	2
John Alling	1

5. Coupe

Greg Hutchison	5
Mike Jester	3
Mike Pykelny	2
John Hutchison	1

Top 3 outdoor point totals

Greg Hutchison	25
Mark Chomyn	13
Mike Pykelny	13

INDOOR EVENTS

1. A-6

C.M. Kim	10
Mike Jester	7
Richard Wood	5
Greg Hutchison	4
John Hutchison	4
Don Bartick	3

2. Limited Penny Plane

Greg Hutchison	7
Mike Jester	6
John Alling	5
Richard Wood	4
Don Bartick	3
Don Brent	1
John Hutchison	1

3. Catapult Launched Glider

Richard Wood	4
Don Bartick	2
Mike Jester	1

4. P-18

Don Brent	6
Mike Jester	4
Don Bartick	3
Greg Hutchison	2
Richard Wood	1

Top 3 indoor point totals

Mike Jester	18
Richard Wood	14
Greg Hutchison	13

Combined Indoor & Outdoor Top 3 point totals

Greg Hutchison	38
Mike Jester	28
John Hutchison	15

San Diego Orbiteers - Indoor Contest Results - July 1, 2018



A-6

<u>Flier</u>	<u>Best 2 of 5 flights</u>		<u>Total</u>	<u>Rank</u>
Richard Wood	176	166	342	1
John Hutchison	112	DNF	112	2
Greg Hutchison	93	DNF	93	3
Don Brent	DNF			



Steve Sherpersky A-6 launch



Greg Hutchison A-6 repairs



July 2018 Indoor Flight Line

Photo by Arline Bartick

Scale Staffel - Indoor Contest Results - July 1, 2018



Phantom Flash

<u>Flier</u>	<u>Best 3 of 6 flights</u>			<u>Total</u>	<u>Rank</u>
Richard Wood	72	86	93	251	1
Don Bartick	72	76	43	191	2
Steve Shupersky	50	56	53	159	3
Greg Hutchison	40	52	58	150	4
John Hutchison	38	41	51	130	5
Walter Ainsley	59	9	44	112	6
Nick Panousis	41	DNF	DNF	41	7
Don Brent	DNF				



Richard Wood



Don Bartick Phantom Flash launch

Photos by Arline Bartick



Walter Ainsley waiting for launch window



John Hutchison Phantom Flash launch

Glues Used in Building Balsa Wood Model Airplanes

By Mike Jester



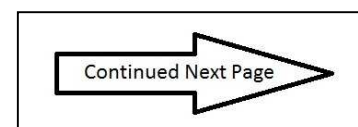
In general, the term “glue” refers to a liquid or viscous adhesive used to join parts together. The terms “glue” and “cement” seem to be used interchangeably in our hobby. I am not a chemist, but I think I know from experience what glue to use for a given job in building model airplanes. The following short summary might be helpful in understanding the nature and uses of the different glues commonly used in our hobby. Most of the time we join balsa wood to balsa wood. Sometimes we join other materials to balsa wood such as tissue, plastic film, music wire, carbon fiber composite, foam and clear polyester film. Note that the glues described hereafter are used in building flying models, not those show-piece models assembled from injection molded plastic parts. The glues I describe are set forth in no particular order. I just wrote their descriptions as they came to mind.

AMBROID® glue is a cellulose based adhesive with an amber color added. It can be thinned with acetone and is preferred by indoor flying champions such as Kang Lee. Long ago indoor flying legend Cezar Banks taught me the double gluing technique used with AMBROID glue and similar cements. The abutting surfaces of the balsa wood parts to be joined are first pre-coated with cement and allowed to dry for a few minutes. This allows the cement to soak into the balsa wood. Then one surface is coated again and the parts are joined. The advantages of a cellulose based adhesive are that it can be applied in very minute amounts to save weight, it dries quickly, and the joint can later be dissolved with acetone repeatedly applied with a small brush. I understand that AMBROID cement is no longer being manufactured.



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DUCO® cement is similar in composition and use to **AMBROID** cement except that it is clear. I use it a great deal in building my models where light weight is critical. I put some DUCO cement in a small applicator bottle with a steel needle and add acetone to make a 30/70 DUCO cement-to-acetone mixture. The double gluing technique is preferred when using DUCO cement but I often just apply thinned DUCO cement to already joined balsa wood parts and let it weep in between the abutting surfaces. You can buy a tube of DUCO from Walmart or an **ACE HARDWARE** store for about \$3. On indoor models I often dissolve a joint with acetone and make adjustments, e.g. to the angle of the tail boom of a stick duration model in order to change the decalage. Broken joints are easily repaired simply by applying some more thinned Duco cement and holding the joint together for a couple of minutes. You can fly the adjusted or repaired model after just a few minutes of curing.



CYANOACRYLATE cement, aka CA or “Super Glue” contains Methyl-2-cyanoacrylate ($\text{CH}_2=\text{C}(\text{CN})\text{COOCH}_3$ or $\text{C}_5\text{H}_5\text{NO}_2$, which, of course, you already knew. I use it a lot because it really speeds up the building process as it dries nearly instantly, and the resulting joint is very strong if the surfaces mate in a flush manner. CA is commercially available in different viscosities. John Hutchison recommends the Professional grade CA made by LOCTITE because of its medium viscosity and bonding strength. It’s a bit pricy at over \$5 for a small bottle at HOME DEPOT. Stan Buddenbohm prefers the less expensive generic CA sold in little black tubes by Walmart. Sometimes super thin viscosity CA is needed for a particular job but be aware it will weep into places where you don’t want it. Here are a few things you need to know about CA. It will stick your fingers together. Many people are allergic to CA. You only have a few seconds before CA sets up so the parts need to already be properly mated when CA is applied to a joint. Sometimes CA won’t set up in which case baking soda, chemical “kicker” or plain old saliva will do the trick. I don’t use the kicker because of its very nasty chemicals. CA has a limited shelf life depending upon how humid it is where you build. Normally my CA lasts about 6 months before it no longer performs as it should. It is difficult to undo a joint made with CA. I won’t use the commercial de-bonder, again because it contains very nasty chemicals. CA will not adhere to itself. So if a CA joint is broken, you cannot rejoin the parts without first sanding off the dried CA. It is very difficult to sand dried CA. If you want to soak your model someday in water to remove and replace the tissue, you should build the bones with CA. I rarely use CA in building indoor models as it is too heavy and it is much harder to apply in small amounts because it cannot be thinned. CA will eat through most foam materials so if you are gluing Styrofoam parts for example, you will need to purchase so-called “foam safe” CA.



POLYVINYL ACETATE (PVA) aka “white glue” is inexpensive and provides amazing strength when building the fuselage, wings and tail feathers of a balsa wood model. You can buy **ELMER’S®** brand white glue just about anywhere at a relatively low price for a large bottle. White glue is used as the “go to” glue by Dave Scigliano, who builds some of the nicest looking models I have seen using off- the-shelf Guillows kits. It is odorless and can be thinned and dissolved with water. It really needs 24 hours to fully cure. I don’t use it when joining balsa wood parts together as I prefer the rapid curing speed of CA for larger models and the light weight of thinned DUCO cement for indoor duration models. I use white glue when laminating strips of balsa wood in the process of making a prop using the fan-fold technique. Dried white glue sands very nicely. When adhering tissue to wings, stabs and fins, I use a 20/80 mixture of white glue and water.



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ALIPHATIC RESIN glue is similar to PVA except that the former is fast drying, i.e. 15 - 30 minutes to set, and it is waterproof. A popular brand of this glue is sold under the Titebond® brand. It is sometimes referred to as “carpenter’s wood glue.” Properly applied to perfectly mating balsa wood surfaces, a Titebond joint is stronger than the wood itself. This glue sands reasonably well after it has dried.



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EPOXY resins are “a class of reactive prepolymers and polymers which contain epoxide groups” according to Wikipedia. Translation - you squeeze equal parts of resin and hardener from their respective bottles onto scrap paper and mix them together with a stir stick. You have a 5-minute working time with most epoxy adhesives sold in hardware stores. I have been told that the longer the advertised cure time of epoxy, the stronger the joint will be. An epoxy joint is usually relatively heavy and therefore I rarely use it in our hobby except where I need super strength. It can be very useful in joining music wire landing gear to balsa wood structure, for example. First wrap the joint with cotton or Kevlar thread and then coat the thread with epoxy. For reasons unknown to me, epoxy really “likes” to adhere to carbon fiber composite, but make sure you first degrease the parts, e.g. with acetone. An epoxy joint seems a little more flexible, and therefore more durable in some applications, than a CA joint.

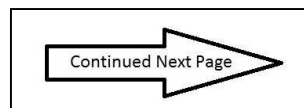


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GLUE STICK adhesives revolutionized the joining of tissue to balsa wood when they were first discovered in our hobby. These adhesives are sold in twist or push-up tubes to make them easy to use. Removable caps extend their shelf life. More chemistry - one popular glue stick formula contains 40% water, 40% acrylic polymer, 10% sodium stearate, 3% polyethylene glycol, and other stuff. This type of adhesive must be safe since they sell lots of it for use by elementary school students. The most popular brand of glue stick used in our hobby is sold under the UHU® trademark. It is purple when you apply it, and is clear when it dries. So you know where you have applied the glue stick to your balsa wood bones. One advantage of glue stick adhesive is that you can usually peel off the tissue before it has dried if you want to realign the tissue. While it will dry in 5 or 10 minutes, it is a good idea to let it dry overnight if you are going to shrink tissue adhered using a glue stick. I find it difficult to apply glue stick adhesive to very light framing, e.g. a fuselage constructed with 6# 1/16-inch square balsa sticks, without breaking the same.



CANOPY GLUE is a very special type of adhesive used to join Mylar® and other clear polyester film windows to balsa wood or tissue covered balsa wood fuselage frames. One suitable canopy glue is sold under the PACER® Formula 560 brand.





48th ANNUAL UNITED STATES FREE FLIGHT CHAMPIONSHIPS

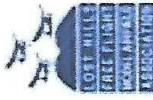
September 21 - 23, 2018 at Lost Hills, CA - Category II - AMA Sanction - American & National Cup Events

Friday September 21 7 a.m. - 5 p.m.	Saturday September 22 7 a.m. - 5 p.m.	Sunday September 23 7 a.m. - 3 p.m.
Modern Events	Modern Events and FAI	Modern Events and FAI
E-36 A Electric P-30* Moffett and Mulvihill Super D Gas*	E-36 A Electric P-30* Moffett and Mulvihill Catapult Glider* Pen (Jr and Open) A Gas* C/D Gas* F1A, F1B and F1C(Special)/P See back Vintage FAI Power	E-36 A Electric P-30* Moffett and Mulvihill Hand Launch Glider* Pen (Jr and Open) F1S from Glider Pen 1/2 A Gas* (Jr and Open) B Gas*
NOSTALGIA EVENTS	NOSTALGIA EVENTS	NOSTALGIA EVENTS
Nostalgia Electric Early 1/2 A Nostalgia Nostalgia Rubber Large & Small NOTE: You may fly your first three flights of any Nostalgia or Classic event on Friday and finish Sat or Sun.	Nostalgia Electric Early 1/2 A Nostalgia Nostalgia Rubber Large & Small 1/2 A Gas Nost. B Gas Nost. C Gas Nost	Nostalgia Electric Early 1/2 A Nostalgia Nostalgia Rubber Large & Small 1/4 A Gas Nost. A Gas Nost.
CLASSIC	CLASSIC	CLASSIC
Classic Towline* Jimmy Allen	Classic Towline* Classic 1/2 A Gas Jimmy Allen	Classic Towline* Classic A/B Gas Jimmy Allen
OLD TIMER EVENTS	OLD TIMER EVENTS	OLD TIMER EVENTS
1/2 A Texaco (ROG) Texaco (ROG) A Pylon / A Fuselage B/C Pylon / B/C Fuselage .020 Replica	NOTE: Old Timer Only...ALL O/T Events can be flown any day at any time during the Contest. You <u>do not</u> have to start and finish the same day.	Small Rubber Stick Small Rubber Cabin Large Rubber Stick Large Rubber Cabin / 8 oz. Wakefield
Noter:	UNOFFICIAL EVENTS	UNOFFICIAL EVENTS
See reverse side for Engine Runs and flight Times Sweepstakes Award for Total Air Time 5 AMA events max.	7:30 a.m. Gollywook Mass Launch 9:30 a.m. "The Mikkelson Memorial" Twin Pusher Mass Launch Night Gas	7 a.m.-7:30 a.m. Dawn Mulvihill & Big E 9 a.m. Compressed Air Mass Launch

see other side for Awards and Contest information 4/24/18

48th ANNUAL UNITED STATES FREE FLIGHT CHAMPIONSHIPS

September 21 – 23, 2018 at Lost Hills, CA. Category II – AMA Sanction – American & National Cup



US FF CHAMPS REGISTRATION: Proof of current AMA Membership and current Lost Hill's Membership required.

\$30 includes *first* Event. Additional events are \$10 each. Gold card \$75 includes unlimited event. Juniors \$5 per event with awards in all events.

Awards: Cash: Five or more flyers 1st/\$50, 2nd/\$25, 3rd/\$15. Four flyers 1st/\$25, 2nd/\$15. Three flyers 1st/\$15. Two flyers 1st/\$5
JR EVENTS will be 1st/\$15, 2nd/\$10, 3rd/\$5.
Sweepstakes: \$100 cash

Lost Hills Member's Meeting, Saturday, September 22nd at 6:30 p.m. at CD table

Notes:

Timecards: Submit timecards to CD table or event table after each official flight.

ENTER ALL TIMES IN SECONDS, except TEXACO Events.

Hand Launch and Catapult Glider will be flown from a pen - submit time cards to CD table every two flights.

All Engine Runs and Max Times are per the AMA Rule Book and NFFS Official Competition Rules.

FAI Saturday Events – (7) one hour rounds, starting at 8 a.m. F1A first round max 210 sec. F1B, C, P first round max 240 sec

F1C (Special) rules, No Gears, No Folders, No Flappers, 5 second motor run.

All other rounds 180 sec. Flyoff rounds no earlier than 4 p.m. per CD.

FAI Sunday Events - F1G, H and Q (S) forty-five min rounds beginning at 8 a.m. F1G, H 120 sec max F1Q 180 sec max

Flyoff rounds no earlier than 1 p.m. per CD.

Sweepstakes Total time for a maximum of 5 AMA events as indicated by *.

Larry Norvall, Contest Director, Cell : 209-366-4784, iffyflb@yahoo.com Lost Hills Web Site: <http://www.lhffmaa.com>

See other side for Schedule of Events.

53rd Rocky Mountain Free Flight Championships Sept. 1-3, 2018

Cat. II, Class AAA, National Cup *Exempt*

- FAI America's Cup: *Dynasty Cup*
- FAC Mountain States Scramble



Located about 20 miles ESE of downtown Denver. Drive six miles east of E-470 on Quincy Ave. Continue one mile east of "T" intersection at Watkins Road, look for MMM entry gate on right (south) side. Call or e-mail for gate combo.

Friday, 8/31 3-5 p.m.

Late registration and FAC Scale judging at the flying site.

Saturday, 9/1 8 a.m. - 5 p.m.

Dynasty Cup: FLA, B, C | P, Q
Vintage FAI Power
AMA P-30
AMA A/B Electric combo
AMA AB Classic Gas
NFFS Classic Towline
SAMA/B/C O.T. Gas combo
Nos. 1/2A | Early 1/2A | 1/4A Gas
FAC WWII Combat (11 a.m.)
FAC Greve/Thompson Race (1 p.m.)
FAC No-Blue-Mix Horde (3 p.m.)
FAC Modern Civilian Scale
FAC Dime Scale
FAC Embryo
FAC Jet Catapult Scale

Sunday, 9/2 8 a.m. - 5 p.m.

Gollywicks Galore: 7:30 a.m. launch
Dynasty Cup: FIG, H, J, S
AMA C/D Gas combo
AMA CD Classic Gas
AMA HLG
Nos. B/C Gas combo
SAM OTHLG | OT CLG
Sm. Nos. | Andrade | SAM Sm. OT
FAC Low Wing Tim. ML (11 a.m.)
FAC WWII Combat (1 p.m.)
FAC Modern Military ML (3 p.m.)
FAC 2-Bit + 1
FAC OT Stick/Fuselage combo
HLG Mass Launch (5:30 p.m.)

Monday 9/3 8 a.m. - 3 p.m.

Dawn Power: 7:30 a.m. launch
AMA A/B Gas combo
AMA 1/2A | 1/2A Classic combo
A Nostalgia Gas
AMA E-36
AMA Catapult Glider
"5x5" HLG - @ 11 a.m. in rounds
SAM 020 Replica
E-Nos. 1/2A | ABC combo
MMM Slow Open Power
AMA Mulvihill | Moffett combo
SAM Large O.T. | Nos. Large Rubber
combo



The following events may be flown any/all of the three days (need not finish on day started): FAC Peanut Scale, FAC Rubber Scale, FAC Power Scale, Junior P-30, Junior E-36, Junior HLG, Junior CLG.

Contest Directors: Don DeLoach, 719-964-7117, <dloach@comcast.net>; Chuck Etherington, 720-201-6218, <etherington.freeflight@outlook.com>. Visit <www.themmmclub.com>.



The Fine Print:

- On-site tent/RV camping allowed, no water or hook-ups, \$25 flat fee for any number of nights.
- Lunch vendor on site Saturday, Sunday, Monday. Please support our vendor!
- All events will follow current AMA, NFFS, FAC, FAI, and SAM rules.
- In combined events contestants may fly any/all events within the groupings for National Cup points and/or to better an existing score for RMFFC award purposes. For example, in C/D Gas Combo, you may fly separate flight strings with both C and D models. Only your best score of the two will count for RMFFC awards purposes; both scores count for National Cup points.





- MMM SLOP: 20K ground RPM limit up to .10, .10 and over limited to 18K. Category II Nostalgia engine runs and maxes.
- At CD's discretion AMA and OT HLG and CLG may be flown from a 40'x40' launch pen.
- Old Timer HLG/CLG: same flyoff rules as AMA CLG/HLG (120s max, one chance to max, keep maxing until you drop).
- FAI events: 60 minute rounds starting at 8:00 a.m. each day, weather permitting. Seven rounds of FIA-B-C/P Saturday; 5 rounds of FIG-H-J-S Sunday. Flyoffs (if needed): 5:10-5:20 p.m. or the following morning.
- FAC No-Blue-Max Flying Horde: open to any FAC model, scale or duration, non Blue Max holders only. Single round, winner gets a Kanone.
- Gollywoks Galore: Meet at 7:15. Launch window: 7:30-7:40 a.m. Must wind and launch inside the 10-minute window, no max, timed to the ground. Eligible models: Gollywock, Vargowock, Jabberwock, Dynamoe. All SAM rules apply.
- Dawn Power: 7:30-7:40 a.m. launch window. All power models fly together including FAI, Nos, AMA, SLOP, Electric. One attempt allowed for one flight with no max. 15-second engine run.
- Dave Wineland's Gas Attack! \$100 cash to the longest string of maxes in any regular RMFFC gas event including AMA, Nos, SAM, FAI, MMM SLOP. Must follow rulebook engine runs/maxes including flyoffs. Automatic, free entry. **Thanks Dave!**
- "5x5 HLG" special event flown at 11 a.m. Monday. AMA HLGs flown in five 5-minute rounds with 90-second maxes; 10-minute chase period between rounds. R1: 11:00-11:05; R2: 11:15-11:20; R3: 11:30-11:35; R4: 11:45-11:50; R5: 12:00-12:05. **\$100 cash to winner!**
- Awards through third place in all events.
- The following RMFFC perpetual trophies will be awarded: FIA, FIB, Gollywock, Mulvihill, Rubber Scale, Collins Glider Hi-Point, Gibbons Rubber Hi-Point, McGhee Power Hi-Point (includes electric events), and the 1961 RMFFC Grand Champion Trophy.
- Grand Champion scoring: Choose up to 5 events: 1 Rubber, 1 Power, 1 Glider, 2 of any. 5, 3, 1 points for 1st, 2nd, 3rd places respectively; bonus points based on number of competitors in each event per the NFFS scoring matrix. See NFFS rulebook, page 12: <www.freeflight.org>. Tiebreaker: Total points accrued in flyers' other events apart from the five chosen events.
- CD reserves the right to reduce maxes/engine runs to suit weather and/or field conditions.
- Raffle during awards ceremony Monday, approx 4 p.m. **PLEASE DONATE ITEMS.** 100% of ticket sales benefit MMM and our great flying site.
- Glider Champion, Rubber Champion, Power Champion scoring: 5, 3, 1 points for 1st, 2nd, 3rd, per the NFFS scoring matrix. All glider/rubber/power events count including scale (excluding mass launches). No maximum number of events to be counted. Tiebreaker: total number of maxes achieved. "Power" includes electric events.
- Junior/Senior Championship award: for highest scoring Junior/Senior per the RMFFC Grand Champion scoring (above).
- Accommodations: 1. Super 8, Parker, Colo., 720-851-2644, \$130, 20 min. from field. 2. Hampton Inn, Parker, Colo., E-470 at U.S. 83/ Parker Rd., 303-841-2977, approx \$110, 20 min. from field. 3. Motel 6, 9201 E. Arapahoe Rd. 303-790-8220. Approx \$73, 30 min. from field. 4. Country Manor Motel, 32681 E. Colfax Ave. Watkins, CO 80137, (303) 261-9650, approx \$70, 15 min. from field.

Detach & mail (or scan and email) to: Don DeLoach 831 E. Willamette, Colo. Spgs, CO 80903, <dloach@comcast.net>

Entry Fees: Adult: \$20 first event, \$10 each event thereafter, \$50 max. Juniors/Seniors: \$10 flies unlimited events. Make checks payable to "MMM Club" or Paypal to <mmffclub@gmail.com>. **Make your contest directors happy...PLEASE PRE-ENTER!**

>> Pre-entry: Unlimited events for \$40, if entry & payment received by 8/30/18<<

Name _____ Address _____

City, State, Zip _____ AMA # _____ J S A

On-Site camping (enclose \$25)? Circle Y N Total enclosed: \$ _____

Circle events you wish to enter. Star or highlight your five Grand Champ events (1 glider, 1 power, 1 rubber, plus 2 of any type.) **Must choose Grand Champ events prior to flying any.**

Saturday: FIA, FIB, FIC/P, FIQ; Vintage FAI Power; P-30; A/B Electric combo; AB Classic Gas; NFFS Classic Towline; SAM A/B/C/O.T. Gas combo; Nos. 1/2A | Early 1/2A | 1/4A Gas combo; FAC WWII Combat (11 a.m.); FAC Embryo; FAC Modern Civil Scale; FAC Greve/Thompson (1 p.m.); FAC Jet Catapult Scale; FAC Dime Scale; FAC No-Blue-Max Flying Horde (3 p.m.).

Sunday: Gollywoks Galore; FIG, FIH, FIJ, FIS; AMA C/D Gas combo; AMA CD Classic Gas; AMA HLG; SAM OT HLG/CLG combo; Nos. Small Rubber | NFFS Andrade | SAM Small OT Rubber combo; Nos. B/C Gas combo; HLG Mass Launch 5:30 p.m. FAC Low Wing Trainer ML (11 a.m.); FAC WWII Combat (1 p.m.); FAC Modern Military ML (3 p.m.); FAC 2-Bit + 1; FAC OT Stick/Fuselage combo.

Monday: Dawn Power; AMA A/B Gas combo; A Nostalgia Gas; AMA E-36; AMA Catapult; SAM .020 Replica; MMM Slow Open Power; AMA Mulvihill | Moffett combo; SAM Large O.T. | Nos. Large Rubber combo; 5x5 HLG; AMA 1/2A | 1/2A Classic combo; E-Nos. 1/2A | ABC combo.

Any day: FAC Peanut Scale, FAC Rubber Scale, FAC Power Scale, Junior P-30, Junior E-36, Junior HLG, Junior CLG.

SAN DIEGO ORBITEERS
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San Diego, California 92117-4266



WHAT'S HAPPENING -

July / August 2018

July - No Club Outdoor Contest

Aug. 5 - **Indoor Flying**
Grossmont College (Upper Gym), 7:30 am to 11:30 am.
Feature Events: **Limited Penny Plane & No-Cal***

Aug. - No Club Outdoor Contest