

EL TORBELLINO

NEWSLETTER OF SAN DIEGO ORBITEERS FREE FLIGHT CLUB

FEBRUARY 2020



Prez's Corner – Mark Chomyn

While other flyers across the country may be shivering through the winter and stuck in their indoor building areas dreaming of spring, we in California have a rather busy calendar in February. If you are a flyer that likes to go north of Perris for events, there are several this month. Some of which are in progress or “a wrap” as I write.

Lost Hills is a busy site in February with the Isaacson-Kiwi Cup on February 8-9, the Kiwi Cup F1E on February 10, the North American Open on February 12, the California Cup on February 13 and the Bob White Max Men on February 15-18. The president’s Cup will be In Eloy Arizona on February 15. And, if you’re thinking of taking a trip to Sacramento, why not combine it with competing in the SGMC Spring Contest in Rancho Cordova on February 29.

But, even if your plans for February don’t include any extended travel don’t forget the Orbiteers Monthly Outdoor in Parris on February 16. Events will be Coupe, Glider and Power. Having attended the January outdoor, I was happy to see that due to a road project on San Jacinto Avenue the entry to the field has been smoothed out a bit. The entry road remains passable even for my low-slung Kia Optima though there are a few drive arounds at some stubborn wet spots. So, unless you’re driving a 1950’s lead sled there should be no problem getting to the flying site as long as Mother Nature continues to cooperate.

Looking ahead, the Scale Staffel of San Diego will hold its first two-day outdoor event of 2020 on March 14 & 15. You can check out the list of events on the Scale Staffel site at <https://www.scalestaffel.org>. This is always a great event so get organized now and don’t miss out on the fun. Also, in March the SCAMPS will hold their 15th annual Taibi Contest. The venue includes rubber power events as well as gas. So, take a look at the SCAMPS site at <http://scamps.homestead.com> and see if there is an event that you might enjoy flying in.

Yes. It’s February. And what does that mean? That’s right; it’s time for Valentine’s Day. So, for all of you builders and flyers that have a spouse or significant other that also puts up with, err I mean enjoys, the fact that you are living a second-childhood through modeling activities, please don’t forget to let them know you care with a gift a warm hug or both. Especially those of you whose partners are willing to get up a dawn and travel to the field knowing they will spend the rest of the morning tending a stop watch.

The January Prez’s Corner mentioned that I was in progress on a Chuck Hollinger Cruiser. Well I’ve completed construction and done a backyard test glide. Things look good so far. Intend to bring to the February outdoor at Perris for some power flights. See you there! - Mark

“The Boeing 767 sucks in enough air through its engines to fill a Good Year Blimp in 7 seconds.”

Fact Retriever



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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

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ORBITEER WEB SITE

www.SanDiegoOrbiteers.com

Webmaster: Kathy McLaughlin



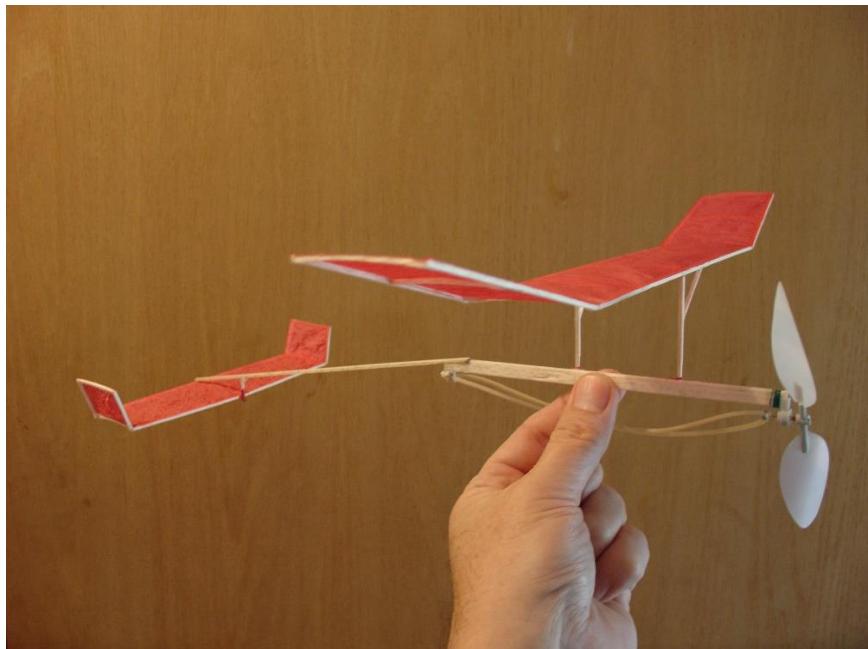
The A-6 Event

By Mike Jester



The rules for the A-6 AMA event specify a very small indoor stick model that is easy to build and fun to fly. The A-6 event was developed by the San Diego Orbiteers club. Long-time club member Clarence Mather said in a letter to Roger Schroeder that the A-6 was developed as a small, sturdy, and easy-to-build model that could be flown in a small recreation center gym after club meetings. The A-6 model is limited to a maximum wing area of 30 square inches, a solid wood motor stick measuring 6-inches maximum from the front of the thrust bearing to the rear hook, and a maximum prop diameter of 6-inches. The “A” in A-6 stands for the old AMA class A model that had a wing area limited to 30-square inches. My guess is that the “6” in A-6 refers to the maximum motor stick length and/or the maximum prop diameter. All framing in an A-6 model must be 1/16-inch square wood minimum except that the ribs can be made of 1/32-inch x 1/6-inch minimum wood. There is no limit on the stab size so tandems are allowed. There is no overall length limit on the A-6 model. Covering can be “paper or commercially available plastic.” The prop blades must be made of 1/32-inch minimum thickness flat balsa wood. Wing posts can be rounded in the area of the mounting tubes. The minimum allowed weight of an A-6 is 1.2 grams, excluding the weight of the rubber motor. Boron, carbon fiber and foam cannot be used in constructing an A-6.

I built my first A-6 in 2006 based on the Combs plan. It had a drooped tail boom and used a 6-inch Ikara prop with plastic film blades, which was not legal. It weighed 5 grams. It flew steady and sure, but only for about 45 seconds.



Combs A-6 by Mike Jester with Illegal Plastic Ikara Prop

My second A-6 was built in 2007 using a kit from Lew Gitlow. It had a high aspect ratio wing and a legal prop with flat 1/32-inch sheet balsa wood blades. I don't recall its weight but it was probably around 2-3 grams. I also don't recall its times but they were probably a little over one minute and perhaps as long as 2 minutes. It was hard to build near the 1.2-gram minim weight until around 2015 when plastic film covering was first allowed. I kept plugging away at this event and have now built nine A-6 models.



Gitlow A-6 by Mike Jester

Bill Gowen holds all most of the AMA A-6 records with his droop stab tandem. The Cat IV AMA record for the A-6 class is over ten minutes. You will need some really light balsa wood to get near minimum weight if you build Gowen's design. I am not sure the weight of his very large stab is worth it since it does not provide as much lift as the wing. I don't think the design of the A-6 model is critical to winning most A-6 contests. Low model weight, optimum trim, matching rubber to prop, motor sizing, and winding are the keys to high times in the A-6 event. It is easier to build near the minimum allowed weight if an A-6 does not have a very high aspect ratio wing. The weight of relatively long wing spars probably offsets any advantage of a high aspect ratio wing.

As you get closer to the minimum model weight you can end up using a rubber motor loop that is more than double the hook-to-hook length. This invariably leads to rubber motor bunching problems including CG shifting and binding of the rubber motor against the motor stick late in a flight. I have tried using stir stick sleeves over both ends of the rubber motor and this strategy has so far had limited success.

I designed and built an A-6 with the same wing and stab proportions as my Limited Penny Planes which seem to fly pretty well. I call this design my LLP A-6. So far it has yet to break 2 minutes but I think this is due to poor trim rather than the configuration of the air frame.



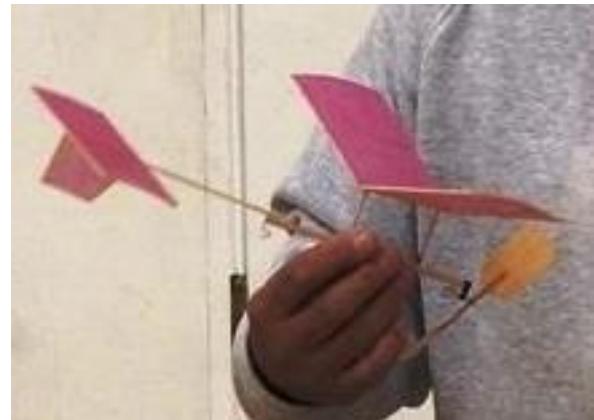
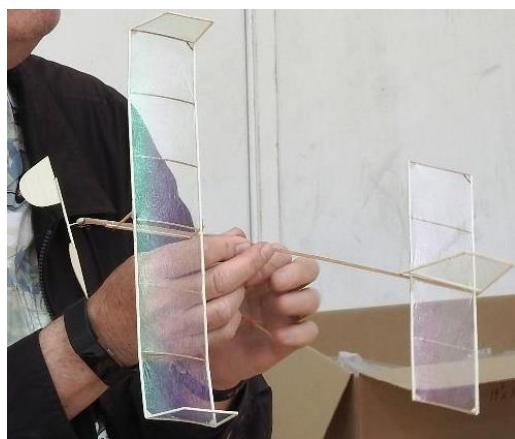
LLP A-6 by Mike Jester

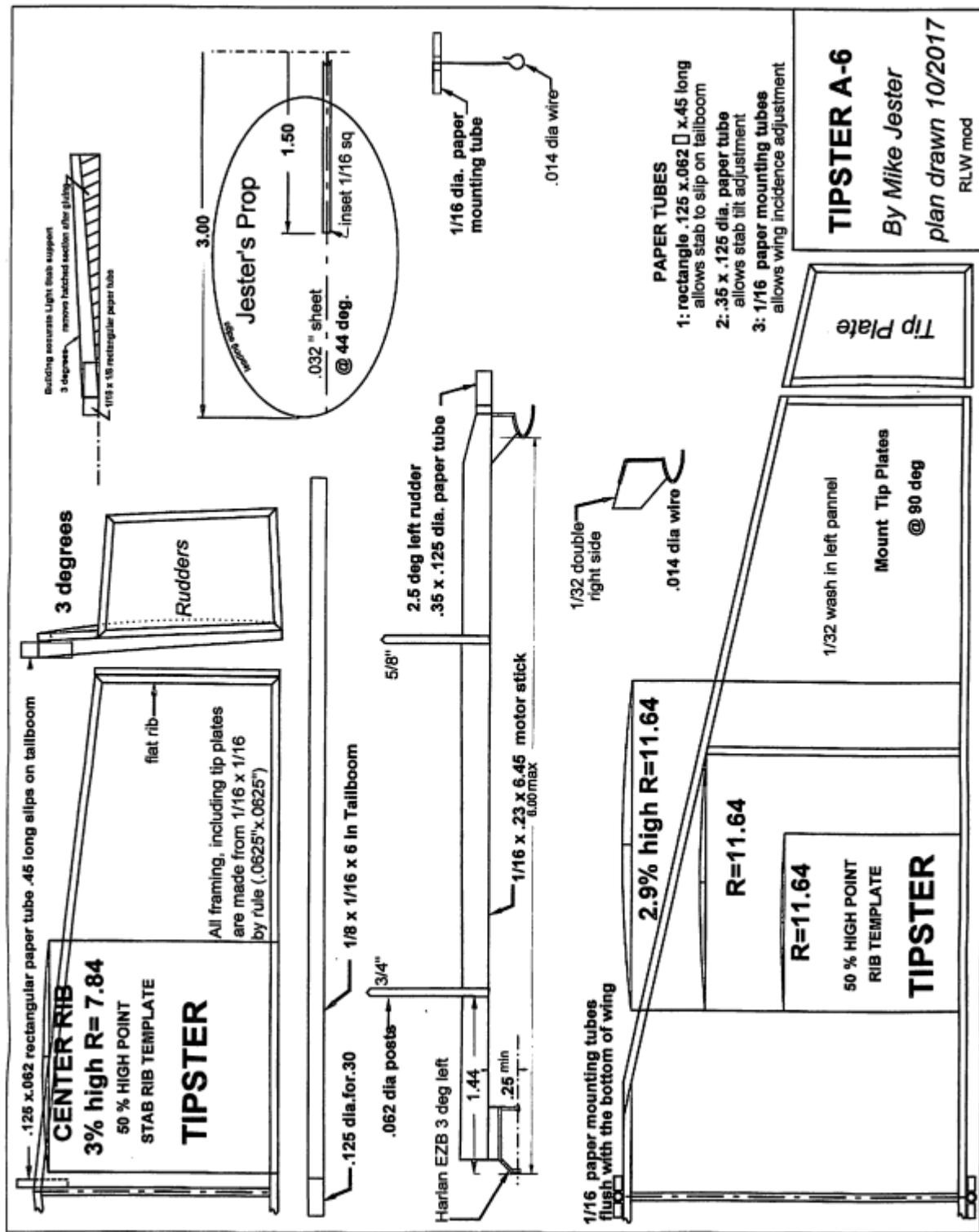
I have had good success with another of my own A-6 designs which I call the Tipster. It has done over four minutes in the club's A-6 contests held in the Grossmont gym. My Tipster has gained weight and now struggles to do three and one-half minute flights. It now weighs around 1.7 grams. The plan for my Tipster A-6 is reproduced at the end of this article. I recommend increasing the height of the twin fins (rudders) by 25% in addition to that shown on the plan in order to avoid the minor Dutch roll of my Tipster. Unfortunately, as reproduced in this newsletter the plan is not to scale and there is no scale indicated on the plan. The wingspan of the Tipster is 13 1/8-inches and the stab span is 8 3/8-inches. Maybe you can adjust your copy machine to enlarge the plan to get these dimensions. My Tipster does not have a removable tail boom, which was added by Richard Wood when he drew up the plan. Only the lower ends of the wing posts can be rounded to fit into mounting tubes. The remainder must be 1/16-inch square.



Tipster A-6 by Mike Jester

A-6 is a featured event every three months at Grossmont. I wish more folks would give it a try. A-6 models are easy to build, easy to transport, and fun to fly.





San Diego Orbiteers - Indoor Contest Results – Feb 2, 2020

Photos by Arline Bartick



Glider

<u>Flier</u>	<u>Best 2 of 9 flights</u>		<u>Total</u>	<u>Rank</u>
Greg Hutchison	25.4	23.1	48.5	1
C. M. Kim	23.0	20.4	43.4	2
Don Bartick	21.1	21.1	42.2	3
John Hutchison	18.1	15.1	33.2	4



DUAL-CLUBS

FREE FLIGHT BONANZA

A National Cup & America's Cup Points Event

**SAN DIEGO ORBITEERS 62nd ANNUAL - CLASS AA, CATEGORY 2
SPONSOR OF AMA & FAI EVENTS**

*

**FRESNO GAS MODEL CLUB 81st ANNUAL - CLASS AA, CATEGORY 2
SPONSOR OF NOSTALGIA, TEXACO & OLD TIME EVENTS**

*** MAY 16th & 17th, 2020 ***
*** LOST HILLS, CA ***

SATURDAY ONLY 7 AM - NOON, 1 - 5 PM LUNCH BREAK W/ICE CREAM SOCIAL	EITHER DAY MUST FINISH EVENT THE SAME DAY	SUNDAY ONLY 7 AM - 3 PM
F1A	SMALL OT RUBBER STICK	.020 REPLICA
F1B	SMALL OT RUBBER CABIN	A PYLON
F1C	LARGE OT RUBBER STICK	B-C PYLON
1/2A GAS(1)	LARGE OT RUBBER CABIN	A FUSELAGE
C/D GAS	½ A NOSTALGIA	B-C FUSELAGE
E-36	½ A NOSTALGIA	RUB/WAKEFIELD NOS
P-30 (1)	A NOSTALGIA	CLASSIC TOWLINE
VINTAGE FAI POWER	B NOSTALGIA	½ A CLASSIC POWER
CATAPULT GLIDER (1)	C NOSTALGIA	½ A GOLDEN AGE
½ A TEXACO	EARLY ½ A NOSTALGIA	
DAWN P-30 MASS LAUNCH		
NIGHT GAS (COMBINED)		
TWIN PUSHER MASS LAUNCH		

(I) Junior & Senior/Open Event

See Special Instructions on backside

**** AN ORBITEER TRADITION LIVES ON ****

JOIN US FOR SATURDAY ICE CREAM SUNDAE SOCIAL ON US (NOON - 1 PM)

also

SATURDAY NIGHT FOOD FEST POTLUCK ORGANIZED BY DAN HEINRICH (6:00 -7:00 PM) (*Main course provided*)(Bring a side dish or dessert)(Let Dan know what you're bringing at aeronutd@cs.com)

AWARDS FOR FIRST 3 PLACES
Ceremonies at: 3:15 PM Sunday

\$20 REGISTRATION Sr. & Open / \$2 Jr
\$5 per Event Sr. & Open / \$1 Junior -
Optional: \$40 for Registration & Unlimited Events

For Information Contact:

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(858)774-2941
dbartick@4-warddesign.com

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SPECIAL INSTRUCTIONS

(LOST HILLS FF MODEL AIRFIELD ASSOCIATION CARD REQUIRED (\$25 AT FIELD TO JOIN)

SATURDAY NOON to 1 PM LUNCH BREAK & SUNDAE SOCIAL

The contest will be suspended for 1 hour for lunch and the San Diego Orbiteers famous ice cream social. This is a great time to relax, cool off, have lunch and enjoy the ice cream sundaes. We will provide ice cream, & sundae fixings, napkins, plates and plastic ware.

PRIZE DRAWING

The Fresno GMC once again has collected an enormous amount of model stuff for their drawing. For up to 3 events entered that are sponsored by them, the contestant will receive a drawing ticket. Drawing to be held right after Sunday's award ceremony.

BILL BOOTH, SR. MEMORIAL

High time in Old Time Gas. Includes 020 Replica, but not Texaco. Winner will receive a special award from the Fresno GMC.

HAND LAUNCH GLIDER & CATAPULT GLIDER

Hand Launch Glider & Catapult Glider will be launched from an established glider pen on the field. Max's are 120 seconds and all flights count.

NIGHT GAS FLYING

All engine classes combined. Event window between 6:30 pm – 9pm. Engine runs in accordance with aircraft classification; i.e., AMA or Nostalgia.

FAI EVENTS

F1A, F1B, F1C: 8am start time. Seven (7) one hour rounds. 240 second first round, 180 seconds, rounds 2-7. Round 5 starts at 1pm do to lunch break/ice cream social. Fly-offs starts at 4:30pm.

F1G, F1H, F1J, F1S: 8am Tiebreaker, no max. 15 min window. Not a regular round flight. 8:30 am start of regular rounds. Five (5) 1 hour rounds, 2 minute max. Fly-offs start at 1:30pm. Two (2) fly-offs, 3min & 4 min. If no winner, revert to morning tiebreaker flight.

VINTAGE FAI POWER

For rules, please go to this website: https://freeflight.org/wp-content/uploads/2019/01/NFFS-Competition-Rules-2019_2020-Release-1.pdf. A copy of the rules will be available at the CD's table. *First five (5) flights must be flown from the established line between 7:00 – 12:00 AM.*

DAWN P-30

Saturday morning 7:30 AM sharp. Mass launch from glider pen; 1 flight, no max.

DAWN MULVIGHILL (Timer can ride with contestant)

Sunday morning 7:30 – 7:50 AM launch window, 1 flight, no max.

TWIN PUSHER MASS LAUNCH

Saturday morning 8:30 sharp. Mass launch from glider pen; 1 flight, no max.

GOLLYWOCK MASS LAUNCH

Sunday morning at 8:00 sharp. Mass launch from glider pen; 1 flight, no max.

TEXACO (Timer can ride with contestant)

1/2A Texaco: Saturday 7:00-10:00 AM launch window, 8cc fuel; Full Size Texaco: Sunday 7:00-10:00 AM launch window, ¼ oz per pound – max 1.75 oz fuel.

1/2A GOLDEN AGE

Open to any free flight design that had plans published or dated from 01/01/1957 thru 12/31/1969. Engines are restricted to Holland Hornet

.049/.051 and Cox T.D._X .049/.051. Although an electric version is included in the provisional rules, electric is excluded from this event. No V.I.T., auto surfaces or auto rudders allowed even if on the original plan. Engine runs are: Cat II) Hand launch 12 sec/VTO 15 sec for first 3 official flights; fly-off flights are 8 seconds. Flight maximum is 180 sec.

2020 Contest Schedule

	Indoor (Grossmont College Gym)	
Date	Orbiteers	Scale Staffel
Jan 5	A6	Phantom Flash
Feb 2	Catapult Launched Glider	No-Cal
Mar 1	P-18	Embryo
Apr 5	Limited Penny Plane	Phantom Flash
May 3	A6	No-Cal
Jun 7	Catapult Launched Glider	Embryo
Jul 5	P-18	Phantom Flash
Aug 2	Limited Penny Plane	No-Cal
Sep 6	A6	Embryo
Oct 4	Catapult Launched Glider	Phantom Flash
Nov 1	P-18	No-Cal, Canard One-Design (Wrisley Zephyr)
Dec 6	Limited Penny Plane	Embryo

2020 Contest Schedule

Outdoor (all contests at Perris, CA unless otherwise noted)			
Date	Rain Date	Orbiteers	Scale Staffel
Jan 12	Jan 26	P-30 / Glider / Power	
Feb 16	Feb 23	Coupe / Glider / Power	
Mar 22	Mar 29	OT/NOS Rubber / Glider / Power	
Apr 19	Apr 26	P-30* / Glider / Power (*Extra award for 1 st place with a Hot Box)	
May 16-17		Dual Club - Lost Hills, CA	
May 24	May 31	Coupe / Glider / Power	
Jun 14	Jun 28	OT/NOS Rubber / Glider / Power	
July/August		Summer Heat Break	
Sep 20	Sep 27	P-30 / Glider / Power	
Oct 18	Oct 25	Coupe / Glider / Power	
Nov 15	Nov 29	OT/NOS Rubber / Glider / Power	
Dec 13	Dec 20	Make Up Date	



San Diego



Scale Staffel

March 2020 - Outdoor Flying Contest

Saturday and Sunday, March 14 - 15, 2020

7:30 a.m. to 12:00 p.m., Taibi Flying Field, Perris, CA

(Location: 33.7803656, - 117.1972964)

Prizes for 1st, 2nd & 3rd

Fees

\$8 entry fee includes one event
\$3 for each additional event
\$20 maximum: includes entry fee and 5 or more events.

Contest Director

John Hutchison
johnhutchison1@cox.net
619-504-5731

Awards Presentation

Immediately following the final event on Sunday

Hotel Accommodations

Red Lion
480 S Redlands Ave,
Perris, CA 92570
951-943-5577

GRAND CHAMPIONSHIP:

The flier who earns the most 1st – 3rd place points accumulated from all three contests (Mar 14-15, Jun 6-7, and Oct 3-4, 2020) will become the 2020 Grand Champion. The trophy will be presented after the last event in 2020

Pilot's Meeting @ 8 a.m. each day

FAC Single Model Events

Fly any event on either day or on both days.

1. Golden Age Combined
2. Old Time Rubber Stick & Fuselage (hand launch)
3. FAC 2-bit + 1 (ROG)
4. Jimmie Allen (ROG)
5. Dime Scale
6. Embryo Endurance (ROG)
7. FAC Rubber Scale / 2x Peanut Walt Mooney Combined (*Special award for 2x Peanut Walt Mooney entries*)

Mass Launch Events

Saturday

8. FAC World War I Combat
Wind at 8:20 a.m., Launch at 8:30 a.m.
9. FAC World War II Combat / Spanish Civil War Combined
Wind at 9:20 a.m., Launch at 9:30 a.m.

Sunday

10. FAC Greve / Thompson Race
Wind at 8:20 a.m., Launch at 8:30a.m.

Future Contests June 6-7 and Oct 3-4, 2020

**SAN VALEERS 71st ANNUAL & 38th ANNUAL 7 ROUNDER
APRIL 18th & 19th, 2020 - LOST HILLS, CA.**

AMA sanction # 9408

**A NFFS NATIONAL CUP, AMERICAS CUP & AMA AA SANCTIONED CONTEST
(SCAMPS/SCIIFS contest same weekend with SCAMP CD Dan Heinrich aeronutd@cs.com)**

AMA CAT II & NOSTALGIA CAT II (WEATHER PERMITTING)**

SATURDAY 8 TO 5

1/2A GAS
B GAS
C GAS
1/2A Nostalgia**
E-36

SUNDAY 8 TO 3

A GAS
D GAS
ABC Nostalgia**

BOTH DAYS

P-30, HL & Catapult Glider
1/2A Golden Age
Nostalgia Rubber
(all flights same day for each entry)

F1A NORDIC - F1B WAKEFIELD - F1C/F1P POWER- F1Q SATURDAY 8 AM TO 3 PM (7 rounds)

1st Round at 8am, F1A, B, C, P, Q 240 secs. All other rounds 180 secs. Flyoff begins at 4:00pm

F1G - F1H - F1S SUNDAY 8 AM TO 11:45 Tie breaker flyoff to the ground 7:30 to 8:00 am. Standard (5 rounds 45 minutes long starting at 8:00 am, 120 sec maxes) 2 FO flights starting at 1:00 pm. If tied after 5 flights and 2 FO flights than tie breaker flight determines winner.

VINTAGE FAI

SATURDAY 8:00 am-1:00pm (5 1hr rounds) All flights 180 secs flyoff at 2:00pm

HUNTER MEMORIAL SUNDAY MORNING(weather permitting)-Sponsored by Mike Thompson

RULES: Any gas free flight airplane. 15 second VTO, 12 second H.L. Highest single flight time (no max) Starts Sunday at sunrise with 1 hr window (start time announced). Entry fee (\$1.00 per flight)

****NOSTALGIA per latest rulebook except motor runs which shall be 10 sec HL, 13 sec VTO for 1st 3 flights, 7 & 9 secs on all flyoff flights. Classes scored separately for National cup but awards given for 1/2A Nostalgia and ABC Nostalgia combined.**

1/2A GOLDEN AGE 1/2 A Models from 1957 to 1969 Engines: TD OR HH .049/.051, motor runs same as Nostalgia

MERCHANDISE AWARDS (engines, kits, fuel, wood, \$\$\$, etc)

*****K & B 4.9 Schnuerle" donated by Lee Hunt (1 ticket for each event entered, or \$3 ea, or \$5 for 2, or \$10 for 5)*****

AMA/NOST CD: Norm Furutani norginf@gmail.com FAI CD: Mike Thompson (805) 404-6173

AMA & Nostalgia: 1ST event: \$10.00, Additional events: \$5.00 per event or \$35 unlimited entry, JRS FREE, FAI events: 1st event \$20 and additional events \$10.

"JUST BRING YOUR MODELS AND SLEEPING BAG AND HAVE FUN"

SAN DIEGO ORBITEERS
Howard L. Haupt / Editor
3860 Ecochee Avenue
San Diego, California 92117-4266



WHAT'S HAPPENING - March 2020

Feb. 16, 2020 - **Orbiteer Outdoor Monthly**

SCAMPS Field, Perris CA, 8:00 am.

Feature Event: **Coupe**

Other Events: **E36, Power & HLG/Catapult Launch Glider**

Mar. 1, 2020 - **Indoor Flying**

Grossmont College (Upper Gym), 7:30 am to 11:30 pm.

Feature Events: **P-18 & Embryo**

Mar. 14/15, 2020 - **Scale Staffel (Flying Aces Squadron 41) Outdoor Flying Contest**

Taibi Flying Field, Perris CA, 7:30 am to 12:00 pm

See enclosed flyer for feature events.

Mar. 22, 2020 - **Orbiteer Outdoor Monthly**

SCAMPS Field, Perris CA, 8:00 am.

Feature Event: **Old Time Nostalgia**

Other Events: **E36, Power & HLG/Catapult Launch Glider**