

# EL TORBELLINO

NEWSLETTER OF SAN DIEGO ORBITEERS FREE FLIGHT CLUB

DECEMBER 2019



Prez's Corner – Mark Chomyn

Christmas is right around the corner and the new year is fast upon us. Did you remember to save the date for combined Orbiteers/Scale Staffel awards banquet? If you have, good we'll see you there. If you have not, go to your calendar right now and enter: January 11, 2020 from 1PM to 4PM at Filippi's Pizza Grotto, 5353 Kearny Villa Rd., San Diego 92123. And, don't forget to do a sweep of your building area for any unwanted "treasures" that would make great raffle prizes. For those in the running for indoor or outdoor club award points, December is your last chance to pick up those points. As I write this, the last indoor meet on December 1<sup>st</sup> is now in the record books. Thanks to all those indoor flyers who competed and made it a great indoor season. I look forward to handing the lucky indoor winners their awards at our banquet. We've only got one more outdoor event to go. So, get your Old Time/Nostalgia, glider or power planes ready for Sunday, December 15, 8AM at Perris. Hopefully the weather will cooperate and the field entry road will be passable.

I just glanced at the November – December issue of the NFFS Free Flight Digest and the free flight calendar for 2020 has been released covering January – May of 2020. Some dates that you may want to note are: January 18-20 Southwest Regional's, Eloy AZ; February 8-9 Isaacson Classic/Kiwi Cup, Lost Hills CA; February 15-18 Bob White Max Men International, Lost Hills CA; April 17-20 Round Valley Indoor, Eager AZ and May 27-31 AMA Indoor Nationals/USC, Eager AZ. For those globe-trotting flyers there's also March 26-29 F1D World Championships, Slanic Romania.

I'm still on the "let's build something different" kick. Finished the all sheet Carl Goldberg Cessna 180. The thing actually showed potential in the backyard test glides after adding two small split shot lead fishing sinkers and some clay under the nose area. As Carl Goldberg designed it was supposed to have a metal washer glued to the nose for balance but I made the nose block removable for stretch winding so I'm going to have to find a way to get the clay and sinkers inside the fuselage at the nose area. Fishing sinkers and clay do not look good stuck to the bottom of a plane. Hope to have this ready for a test flight at Perris on December 15.

While rummaging through the garage model building area looking for raffle prizes for the banquet, I ran across a box of plans that had been somehow avoiding my field of vision. My curiosity got the better of me and I began to rifle through the plans box. One particular plan I unrolled grabbed my interest. What the heck is this? Scribbling on the plan's edge says Cruiser and the designers name is Chuck Hollinger. Hollinger? Isn't he the guy that also did the great looking Nomad free flight? I was hooked. The Cruiser definitely had "build something different" written all over it. So, on the bench the plan went and as I write it's all framed up. It's a "cutie". Sort of has a cartoon quality to it, no offense to Mr. Hollinger intended. Should get it covered for a test flight in January 2020.

Christmas time always has me feeling a bit nostalgic. As a kid I remember riding my bike down to the local hobby shop and the hardware stores in Ludlow Massachusetts after the Thanksgiving holiday in the mid to late 1950's. Because I knew they would be getting stocked up for Christmas

with all the latest model building stuff. Sure, you'd expect the hobby shop to have modeling supplies and kits, but the hardware store owners weren't dummies. They knew if junior tagged along with dad when dad went to buy hardware, they had two customers they could market. So, a portion of the front window of those hardware stores was dedicated to modeling items. With some manufacturer supplied built-up kit models hanging from the ceiling that could be seen in the window. I remember seeing Monogram Speedee-Bilts and the Jim Walker Fire Baby hanging as if in flight. Also, in the window was a working model of a "Walking Beam" engine built from a Gilbert Erector Set. One year I really got mesmerized by a Renwal Visible V-8 engine model running in the display window. I could not believe my eyes. There was the crankshaft, cam shaft and rocker arms all working in unison as the spark plugs were blinking red. I wanted one badly but Santa never did leave one under the tree. But I got over that quickly when I unwrapped a Comet Starfighter ready to fly u-control. Unfortunately, though it looked great I was never successful at getting in a decent flight with it. The OK .049 just didn't have enough oomph to keep the plane tight on the lines. The plane was a shining example of the "rock on a string" syndrome so typical of all plastic ready to fly control liners of that day.

In the spirit of nostalgia, I've provided the January 1953 cover of Model Airplane News. The cover captures the feelings I described above when staring at the models in the Christmas displays. You ask, why would a January cover be showing a Christmas scene? As you may remember, the magazine releases were always a bit ahead of the actual date. That is, you got your January issue before December had elapsed.

So, with marketing in mind, the January issue showed the joy of getting your dream Christmas gift.

Until we see you at the flying field or the banquet, a very Merry Christmas and Happy New Year to all!!!

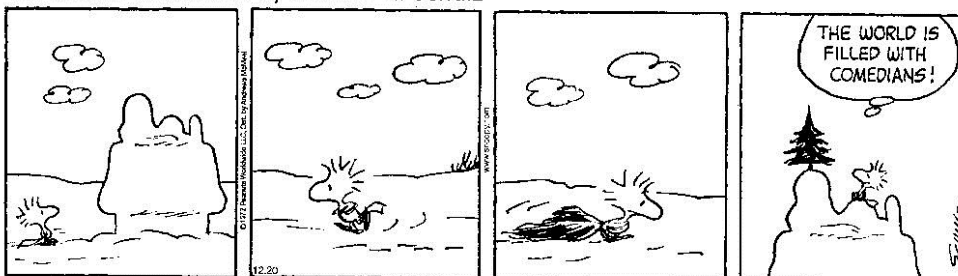
*"The only difference between an expert and an amateur is plenty of sandpaper and a strong thermal."*

*Anonymous*



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### Classic Peanuts by Charles M. Schulz



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[hlhaupt1033@att.net](mailto:hlhaupt1033@att.net)

## 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.

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[www.SanDiegoOrbiteers.com](http://www.SanDiegoOrbiteers.com)

Webmaster: Kathy McLaughlin



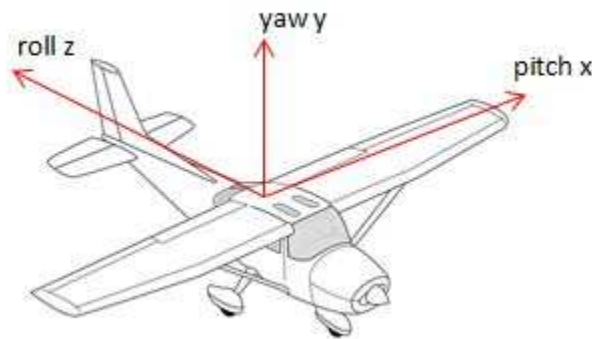
# Yaw Stability of Free Flight Rubber Powered Model Aircraft

By Mike Jester



Unlike a real airplane or a radio-controlled airplane, a free flight model airplane must maintain its stability without any pilot adjustment of control surfaces during a flight. Even more challenging, a rubber powered free flight model airplane must do this throughout the climb, cruise and glide phases of the flight as the torque of the rubber motor varies from high, and then to medium, to low, and finally to zero. It must do this while encountering disturbances in the air such as wind, turbulence and thermals. A rubber powered free flight model airplane needs yaw (directional) stability so that it will automatically return to a straight position (relative to the direction it is traveling). In addition, the model must maintain pitch stability and roll stability, which I covered in two previous articles.

Think of three mutually orthogonal axes intersecting through your model as illustrated below. Rotation of your model about a transverse horizontal axis (X) near its center of gravity (CG) represents variations in the pitch (angle). Rotation of your model about a longitudinal horizontal axis (Z) that extends along the centerline of the fuselage represents variations in the roll (angle). Rotation of the model about a vertical axis (Y) represents yawing motion of the aircraft. Yawing motion is most apparent in a lateral wagging back and forth motion of the tail which is undesirable and is inhibited by the vertical stabilizer (fin).



## Pitch, Roll and Yaw about X, Z and Y Axes

In full-size aircraft, ailerons are the primary surfaces used for turning. Rudder is used in full-size aircraft only to correct the adverse yaw effect created during roll. In the case of free flight model airplanes, turn is normally the result of the combination of factors including prop thrust angle, rudder, stab tilt, and the action of a free wheeler propeller during the glide. Each factor is most effective during certain phases of the flight.

The size of the vertical stabilizer in a free flight model is critical. Follow the plan! If the fin is too small, the model can exhibit a so-called “Dutch roll”, which may also be the result of improper location of the CG, e.g. insufficient nose weight. If the fin is too large the model may show a tendency to veer to one side or the other and not recover. Note that catapult launched gliders have extremely small vertical stabilizers. The vertical stabilizer of actual aircraft often needs to be scaled up 10-20% when constructed as free flight scale models. One example is the Bf 109 WWII German fighter. Some Old Time Rubber models have very tall vertical stabilizers, such as the Korda Victory, in order to counteract the effects of their relatively large props.





**Korda Victory Old Time Rubber Fuselage Model**

I built the BA Eagle II for the Spanish Civil War events at WESTFAC VI. The vertical stabilizer on my model was built to actual scale. I could not get it trimmed. It would launch straight and then either spiral into the alfalfa right or left. Tom Arnold suggested to me that the vertical stabilizer on my BA Eagle II is too large. He recommended that I should experiment by replacing the built-up vertical stabilizer with a sheet balsa vertical stabilizer and gradually cut it down with scissors. This experiment is still on my TO DO list after two years!



**The Author's BA Eagle II**

This concludes my series of three articles on pitch, roll and yaw stability of rubber powered model airplanes. Next month this newsletter will hopefully include an article I just wrote about the venerable Guillow's SKY STREAK slide-together model.



## San Diego Orbiteers - Outdoor Contest Results – November 17, 2019 - Perris, CA

### P-30

<u>Flier</u>	<u>3 flights</u>			<u>fly-off</u>	<u>Total</u>	<u>Rank</u>
Mike Jester	120	120	85		325	1
Stan Buddenbohm*	120	74	116		310	2



### Power - E-36

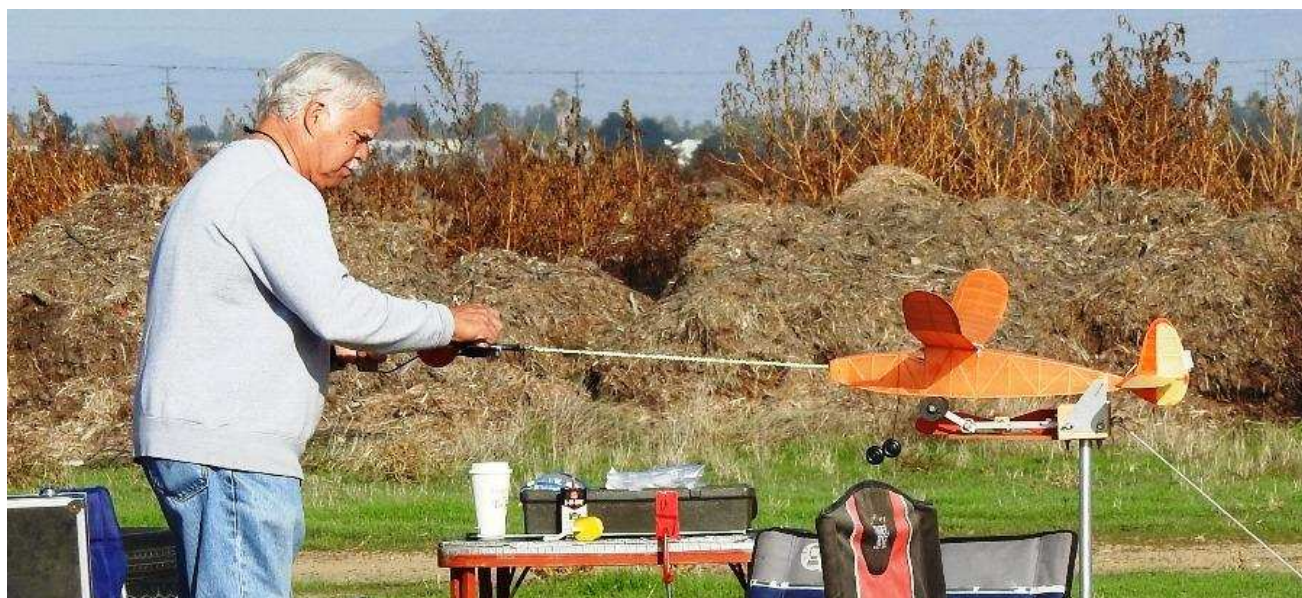
<u>Flier</u>		<u>3 flights</u>		<u>fly-off</u>	<u>Total</u>	<u>Rank</u>
Mike Pykelny	65	120	58		243	1

### Glider

<u>Flier</u>		<u>Best 3/6 flights</u>			<u>Total</u>	<u>Rank</u>
Stan Buddenbohm*	(HLG)	101	82	99	282	1
Tim Batiuk*	(HLG)	77	57	93	227	2
Jose Cetena#	(CLG)	37	30	120	187	3
Mike Pykelny	(CLG)	35	26	29	90	4
Mike Jester	(CLG)	30	12	22	64	5
Lance Powers	(CLG)	DNF	DNF	DNF		

\* not a member of the San Diego Orbiteers

# Junior member of the San Diego Orbiteers



***A scene of concentration and readiness, note tall coffee on table  
(Dec 15, 2019: A.Bartick photo)***

## Orbiteers - Outdoor Contest Results - December 15, 2019

### Old Time/Nostalgia Rubber



<u>Flier</u>	<u>3 flights</u>			<u>Total</u>	<u>Rank</u>
Mark Chomyn	79	120	81	280	1
Mike Jester	120	74	75	269	2
Mike Pykelny	12	4		16	3

### Power

<u>Flier</u>	<u>5 flights</u>				<u>Total</u>	<u>Rank</u>
Mike Pykelny	120	120	120	120	86	566
Don Bartick	120	120	120	115		475
Clint Brooks*	120	120	120	109		469

### Glider

#### HLG

<u>Flier</u>	<u>Best 3 of 6 flights</u>			<u>Total</u>	<u>Rank</u>
Clint Brooks*	120	84	120	324	1
Tim Batiuk*	68	88	79	235	2
Stan Buddenbohm*	46	57	120	223	3

#### CLG

<u>Flier</u>	<u>Best 3 of 6 flights</u>			<u>Total</u>	<u>Rank</u>
Mike Jester	36	40	31	107	1
Mike Pykelny	36	38	26	100	2

\*not an SDO member

### **The Launch →**

*Photo by A.Bartick*





## Orbiteers - Outdoor Contest Results - December 15, 2019

Additional Photos by Arline Bartick



*A trio of glider flyers returning to the flight line*





## Orbiteers - Indoor Contest Results - December 1, 2019



### P-18

<u>Flier</u>	<u>Best 2 of 5 flights</u>		<u>Total</u>	<u>Rank</u>
Mike Jester	127	135	262	1
John Hutchison	128	124	252	2
Don Bartick	104	115	219	3
Paul Covelli*	118	93	211	4
Nick Panousis+	102	109	211	5
Jose Cetina#	94	104	198	6

\*not an SDO member

# junior member

+ tie breaker for 4<sup>th</sup> place versus 5<sup>th</sup> place was longest single flight

## Scale Staffel - Indoor Contest Results - December 1, 2019



### Embryo

<u>Flier</u>	<u>3 flights</u>			<u>Total</u>	<u>Rank</u>
Walter Ainslie	51	51	45	147	1
John Hutchison	42	48	49	139	2
Nick Panousis	20	31	30	81	3



**December 2019 Indoor Flyers - Photo by Arline Bartick**

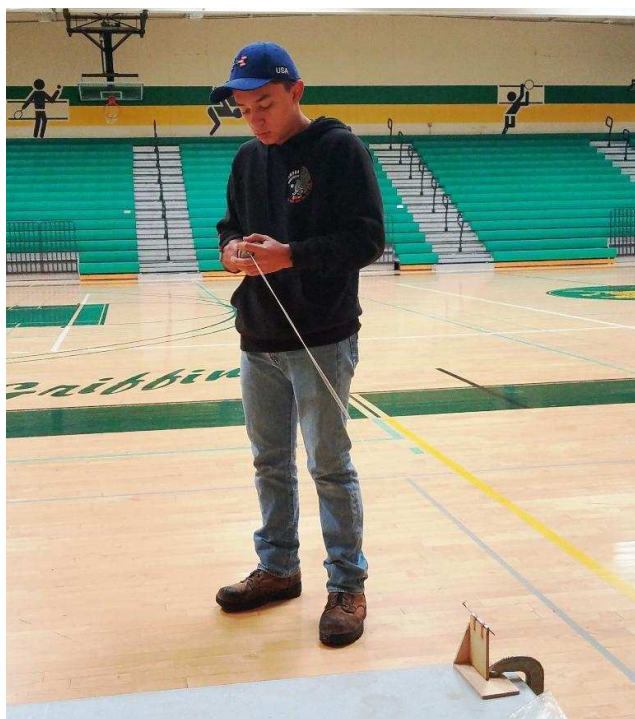
## Orbiteers - Indoor Contest Results - December 1, 2019

Additional Photos by Arline Bartick



A very fast Embryo

Careful winding of a Embryo for flight



Jose Cetina winding for next Flight



P-18 launch by Mike Jester



Held at the Chomyn's home. Thank you to our hosts for a great pizza dinner. Attendees included our hosts, Don and Arline Bartick, Mike Pykelny, Mike and Dorothy Jester, John and Kathy Hutchison, and John and Ann Merrill

**The meeting was called to order** at 7:30 p.m.

**Minutes** of the previous board meeting were approved as published.

**Treasurer's Report** was approved as provided to the board members.

**Membership Report:** Mark Chomyn relayed that he has delivered more flyers to the Craftsmanship Museum in Carlsbad.

**Old Business:** Identify owner for the possible test flying field off Gird Road. Mark has been exploring the site, which likely isn't large enough for contests, but may be adequate for test flying and trimming. He will update us when more info becomes available.

### **New Business:**

Determine a per-person charge for upcoming banquet: \$10.00 was decided on, same as last year. We need at least 25 people to show up. See flyer elsewhere in the newsletter.

Don Bartick is coordinating the awards ribbons and trophies for the banquet.

Raffle prize purchases: as usual, both the Orbiteers and Scale Staffel will donate \$100.00 each toward the purchase of raffle items. Anyone attending the banquet is also allowed to bring in anything they would like to donate toward the raffle. Kits and supplies are always appreciated, as well as any other items.

Nominations for club officers: Mark has once again (somewhat reluctantly) agreed to be railroaded into being President for another year. Following that, all other officers will remain in their respective positions for the year as well. Sorry, Mark, better luck next year.

Review and approve the 2020 indoor and outdoor contest schedules. The indoor schedule was not finalized, but after a couple of slight modifications, the outdoor schedule was approved. If it isn't elsewhere in this newsletter, it will be on our website soon.

A motion was made by Don to split the HLG and CLG categories at the monthly contests, as it appears there are normally plenty of participants in each division. The motion was seconded by John Hutchison, and the motion passed unanimously.

Status of the year end point tallies for the indoor and outdoor awards: Mike Jester is currently handling the tallies, but is awaiting just a little more info in order to determine a tie-breaker in one of the categories. He will then hand



off the info to Don, so he can get the awards engraved.

**Open Discussion:** once again, alternative flying sites were discussed. Nothing has been found that is suitable for contests, but a few possibilities are out there for test flying and trimming. More info to follow as it becomes available.

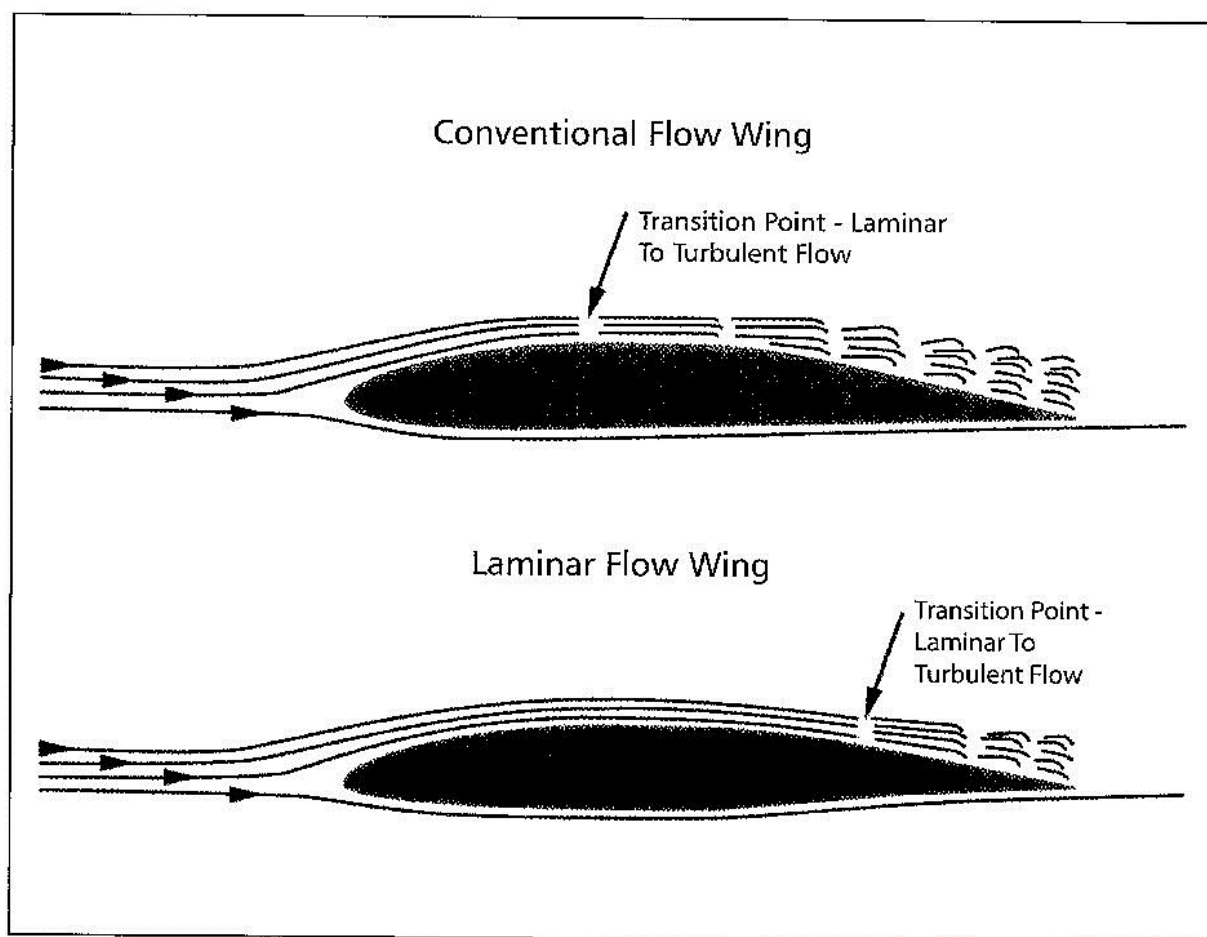
**Good of the Order:** sad news...Mike and Dorothy are moving to Nevada, near Lake Tahoe. They will still spend some time each year in San Diego, but are moving near the beginning of the year. Both will be greatly missed.

John Merrill reported that he had the honor of leading the 48<sup>th</sup> Annual Parade of Lights held on 2 consecutive Sundays in December on San Diego Bay. He used the 105 year-old Pilot boat that belongs to the Maritime Museum.

**Call for adjournment** at 8:44 p.m.

Respectfully submitted by John R. Merrill, Secretary

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# 2020 Contest Schedule

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

Stolen From Scale Staffel Website

# 2020 Contest Schedule

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

Stolen from Scale Staffel website



## New Hotel in Perris, California

*By Mike Jester*

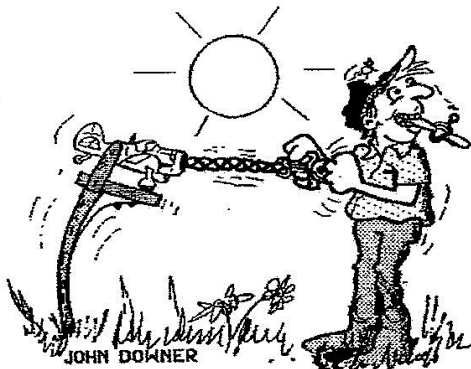
We will soon have an alternative in Perris to staying at the Red Lion Inn & Suites. There is a new 103 room hotel under construction on Harvill Avenue in Perris, 4 miles north of Taibi Field. There are no signs at the construction site indicating which franchise the hotel will be operating under. The partially constructed hotel pictured below has the appearance of a standard Hampton Inn or Fairfield Inn. The staff at the Red Lion told me about the ongoing construction of two new hotels in Perris but I could find no evidence of the other construction site which is supposedly located on the Ramona Expressway.

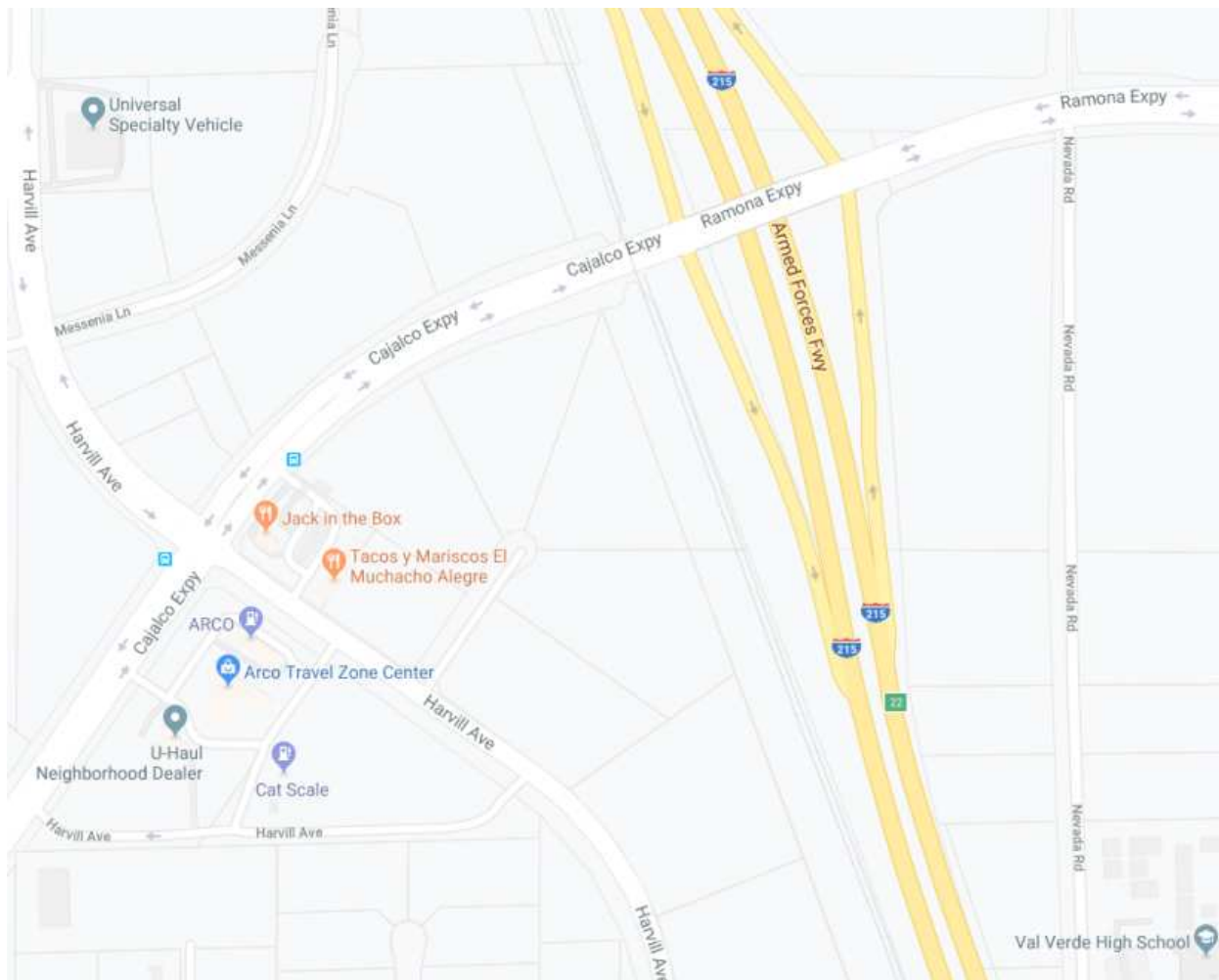


### **The New Hotel Under Construction in Perris, California**

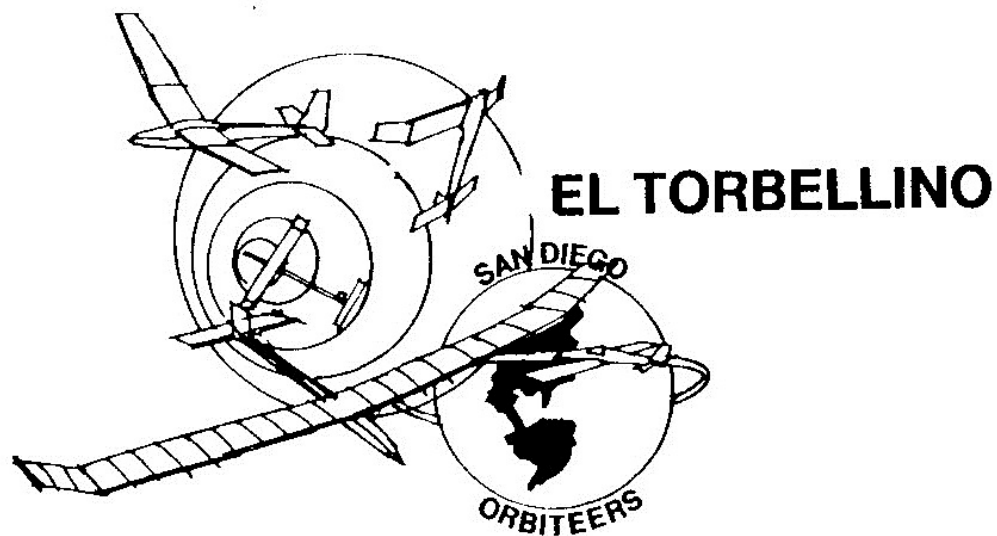
There is no information on the Internet about this new hotel except for a massive legal document that was apparently used to get the various permits that were required. A masonry wall will protect the ground floor rooms from freeway noise. The hotel will have a pool and a large meeting room. My guess is that it will be ready for occupancy in late Spring or early Summer, in 2020. The new hotel will probably charge double the jumper's rate at the Red Lion.

The new hotel is located just off the 215 highway. Referring to the following map, head north on the 215 highway and take the Ramona Expressway exit. Then make a left onto Cajalco Expressway and then make a left again onto Harvill Avenue. The hotel is located on the plot just above, and to the right, of the slanted Harvill Avenue street name on the map.





Perris, California





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**2020 Bob White Memorial Max Men International**  
**An FAI World Cup and Americas Cup Event**  
**February 13 - 17, 2020**  
**AMA SANCTION 9426**

**Bissonette Mirage Field, Lost Hills California, USA**

**F1E: Thursday February 13**

**F1E California Cup Organized and run by SCAT (Separate Bulletin & Entry)**

(7) 1-Hour Rounds + Flyoffs - Check-In on Holloway Hill at 9:00 AM Round 1 Start Time: 10:00 AM

**F1B, F1C and F1P: Friday February 14**

\*(7) 1-Hour Rounds + Flyoffs - Round 1 Start Time: 8:00AM

First Round Extended Max 240 Seconds

**F1A: Saturday February 15**

\*(7) 1-Hour Rounds + Flyoffs - Round 1 Start Time: 8:00AM

First Round Extended Max 240 Seconds

**F1Q: Saturday February 15**

\*(7) 1-Hour Rounds + Flyoffs - Round 1 Start Time: 8:00AM

First Round Max 180 Seconds

**Americas Cup Banquet: Saturday February 15**

Dinner and Americas Cup Awards Presentations - 7:00 PM at Lost Hills Recreation Center

**F1G, F1H, F1J and F1S: Sunday February 16**

(5) 1-Hour Rounds + Flyoffs - Round 1 Start Time: 10:00AM

**Reserve Day: Monday February 17**

**ALL CONTESTANTS FLYING F1A, F1B, F1C, F1E AND F1Q MUST HAVE A CURRENT FAI SPORTING LICENSE**



# **2020 BOB WHITE MAX MEN INTERNATIONAL**

## **ONLINE ENTRY FOR FAB FEBRUARY**

**Roger Morrell has developed a complete online entry portal for all FAI events that also includes reservations for banquets and social gatherings during the Fab February Week. Click on the link below and fill in all your information. You will get an e-mail response and we'll see you in February!**

[https://docs.google.com/forms/d/1I2Ub\\_TDjunbC8gACvzy6\\_LRi5jj74yHE62JdR-Wazu4/edit?usp=sharing](https://docs.google.com/forms/d/1I2Ub_TDjunbC8gACvzy6_LRi5jj74yHE62JdR-Wazu4/edit?usp=sharing)

**All fees will be collected at registration**

**For Additional Information, Max Men International Contest Director:**

**Bill Booth Jr.**

**27842 Whisperwood Drive**

**Menifee, CA 92584 USA**

**(760) 889-3201 or e-mail: [<ffltarch@gmail.com>](mailto:ffltarch@gmail.com)**

**Non-AMA Members must pay AMA Affiliation Fee or show receipt from prior payment  
Contestants must pick up Registration Package at Headquarters Tent before Round 1 of their first event**

**Lost Hills Motels: Motel 6 (661) 797-2346 and Days Inn (661) 797-2371**



# Scale Staffel San Diego San Diego Orbiteers

## Annual Awards Banquet

Saturday, January 11, 2020

1:00 PM to 4:00PM

**Filippi's Pizza Grotto**

5353 Kearny Villa Road

San Diego, CA 92123

858-279-7240

All you can eat Italian Cuisine Buffet,  
Including Soft Drinks, Beer, Tax and Tip  
\$10.00 Per Person, cash appreciated

Raffle, Donations are welcomed  
Bring Family and Friends

**See you there !!!**



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



## WHAT'S HAPPENING - January 2020

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Jan. 5, 2020 - **Indoor Flying**  
Grossmont College (Upper Gym), 7:30 am to 11:30 pm.  
Feature Events: **A-6 & Phantom Flash**

Jan. 11, 2020 - **SanDiego Orbiteer and Scale Staffel Annual Banquet**  
1:00 pm to 4:00 pm  
Filippi's Pizza Grotto  
5353 Kearny Villa Rd.  
San Diego, CA 92123  
(858) 279-7240



Jan. 12, 2020 - **Orbiteer Outdoor Monthly**  
SCAMPS Field, Perris CA, 8:00 am.  
Feature Event: **P-30**  
Other Events: **E36, Power & HLG/Catapult Launch Glider**