

EL TORBELLINO

NEWSLETTER OF SAN DIEGO ORBITEERS FREE FLIGHT CLUB

JULY 2019



Prez's Corner – Mark Chomyn

With July comes, the heat and the beginning of our two-month pause in outdoor activity at Taibi Field in Perris. So, it's a great time to visit your building area and do an inventory review, clean-up and then get started on building for resumption of outdoor flying in September. Just think about what can be accomplished in two months of concentrated effort. Reorganize the stack of balsa sheet and stick wood, clean up the pile or drawerful of covering material, check the adhesive supplies, restock the finishing materials and look through the plans collection for something different to build.

I used Eze Dope on my last three models as I ran out of good old butyrate and nitrate dope. I find it OK but it tends to really sag the tissue when applied. That can be bad news on a double covered 1/16-inch framed stab or rudder as the tissue sags and can stick to the other tissue layer creating a sort of circular depression in the tissue. You really have to sweep it on lightly to avoid the problem and that can be difficult when it's been thinned as needed for sealing tissue surfaces. So, one of the things I will do is get an order ready for real dope. That's getting harder to do and costing more as there are a dwindling number of vendors (Sig, Brodak, Aircraft Spruce) that still carry both nitrate and butyrate. But I find dope easier to work with and it gives a nice matte type finish compared to the higher gloss affect I've gotten with Eze Dope and the smell brings back the sweet memories of childhood building.

Getting back to the weather, don't let the July/August outdoor break get you down. There are still great flying conditions at the Grossmont gym. And, as the weather heats

the air in the gym it gets a bit more buoyant as you near the ceiling. So, come on down and give it a try, you may find yourself picking up some extra seconds in time due to the change in the gym's atmospheric conditions.

Though the Orbiteers "go dark" in July/August that doesn't mean that Taibi Field does. I got an e-mail from Roger Willis noting that the Oasis Flyers will hold a contest on Wednesday, July 24 from 7:30 to 11AM. Events will be a Jimmy Allen Sky Chief Mass Launch, Old Time Rubber Fuselage and a WWII Combat Mass Launch. The Oasis club are a great group of flyers and if your schedule permits why not take a ride to Perris and get in some flying?

I got the bug when I saw the Oasis club's Sky Chief Contest announcement and ordered a plan and short kit from Jim O'Reilly Plans. If the order is shipped fast enough and I can get 10-14 days of building time I'm going to try a crash (no pun intended) building effort to get one ready for the contest. Don't forget the Scale Staffel two-day event in September (Sept 21-22) at Taibi Field in Perris. The Orbiteers July/August contest break will give you additional time to get ready for that contest. In my case I have three casualties from the June 8-9 event to replace, so I appreciate the extra building time. Also, the SCAMPS will have events on July 17 for Coupe and Bungee Launch Glider and August 14 for O.T. Large Rubber, so take a ride north for some summer flying. The bungee launch glider event sounds interesting even from just a spectator standpoint.

In closing, in last month's Prez's Corner I mentioned my trip to Nova Scotia. Though I didn't run across any hobby shops, I did see a

landscape full of flying fields with the mythical tall grass. My wife got tired of me pointing and saying "flying field" as we passed each open area. Of course, I saw them at their best and not during the months that they'd be covered with a foot of snow.

Well as Looney Tunes cartoons would say, "That's all folks."

On the back of a [t-shirt I wear](#) while at the flying field:
"If you're not flying today, I don't want your opinion!"

I know it's not the most friendly, but sometimes you just gotta let people know what's on your mind...

Anonymous

Thermals
Mark

Random Pictures from Past Club Flying

(Photos by Arline Bartick)



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:

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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



Orbiteers - Indoor Contest Results - July 7, 2019

A-6

<u>Flier</u>	<u>Best 2 of 5 flights</u>		<u>Total</u>	<u>Rank</u>
Mike Jester	182	214	396	1
John Swain	203	187	390	2
Greg Hutchison	195	191	386	3
Don Bartick	182	184	366	4
Jose Cetina	170	178	348	5
Don Brent	171	173	344	6
John Hutchison	176	DNF	176	7



Photos by Arline Bartick

Scale Staffel - Indoor Contest Results - July 7, 2019

Phantom Flash

<u>Flier</u>	<u>best 3 of 6 flights</u>			<u>Total</u>	<u>Rank</u>
John Hutchison	53	50	51	154	1
Don Bartick	35	17	41	93	2
Jose Cetina	6	14	22	42	3



Mike Jester keeping an eye on the competitor fly-by



Jose Cetina launching Science Olympian Plane

Orbiteers - Indoor Contest Results - July 7, 2019: With photos by Arline Bartick



John Hutchison verifying flight adjustments



Mike Jester & Pre-launch adjustment



Don Brent with A-6 launch



Don Bartick with A-6 launch



← Don Bartick and Jose Cetina



Prop Imbalance

By Mike Jester

You are watching your P-18 fly in nice circle at Grossmont, but its tail feathers are noticeably vibrating. You may wonder what is causing this annoying vibration. It is often due to imbalance of the prop. In theory the energy stored in the rubber motor will be used more efficiently if part of that energy is not used up vibrating the model. Props can be imbalanced due to:

- 1) unequal pitch of the blades;
- 2) unequal weight of the blades (static imbalance);
- 3) unequal flex of the blades;
- 4) unequal area of the blades (due to unequal length and/or chord);
- 5) unequal shape of the blade outlines;
- 6) unequal camber of the blades along the radius; and
- 7) various combinations of the above.

No. 1 is typically the culprit for slow turning indoor props such as Limited Penny Plane (LPP) props. Minor static imbalance of such lightweight props typically has no significant effect. An appropriate pitch gauge should be used to set and/or measure the pitch of each blade. See my article on prop pitch gauges published in the July 2016 edition of this newsletter.



A2Z Pitch Gauge for Indoor Props

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Retro RC Prop Pitch Gauge for Outdoor Props

No. 2 matters a lot at high RPM, e.g. 1/2 A gas and E-36 props (8,000+ RPM?), but much less for P-30, P-18 (RPM 1000+) and almost none for LPP (around RPM 150+). It is my usual practice to statically balance all props, including all outdoor plastic props (P-30, GizmoGeezer, etc.) and all carved balsa props used on outdoor models. I statically balance all props on my indoor models as well. The heavier blade can be sanded or scraped if the rules permit these modifications. Or I simply adhere small segments of adhesive tape to the outer portion of the inside surface of the lighter blade. I use red tartan Scotch brand tape on indoor props and much heavier clear vinyl tape on outdoor props.

Nos. 3 - 6 are relatively infrequent. For example, No. 3 only comes into play to any significant degree when your indoor model is using a flaring prop, i.e. a prop with thin blades that are designed to flex under high torque to suppress the climb. Nos. 4 - 6 shouldn't occur with injection molded plastic props. If you make your own props then proper use of a pattern and then proper carving or use of a prop forming block should avoid Nos. 4 - 6.

It occurs to me that I have never checked my best F1G props for static imbalance. They are folders made in the Ukraine so my guess is that they are statically balanced. I have been concentrating on better trim and more skill in picking thermals in the coupe event. I have seen F1D and EZB models flown by experts that exhibit a big wobble while climbing out. Therefore, I am not sure how much adverse effect the wobble actually has, at least on indoor duration stick models. The P-18 that easily wins each of our P-18 contests at Grossmont exhibits lots of vibration but flies more than 30 seconds longer than the second place finisher. In theory if that winning flier eliminated the vibration in his P-18 it should fly longer, all things being equal. How long? Who knows? Your model may be vibrating due to other causes besides an imbalanced prop. Sometimes the rubber motor is not centered on the prop shaft hook and this can set up a vibration. This vibration can be magnified if the wound rubber motor oscillates in a very noticeable fashion along its entire length due to a matching resonant frequency. Vibrations in your model can also be due to a bent prop shaft. A bent prop shaft can be detected by watching the blade spin from the side. The tips of the blades will be seen to move fore and aft. The amount of vibration caused by a bent prop shaft depends on the degree of bend.

In conclusion, prop imbalance should be avoided for the sake of both efficiency and aesthetics.

San Diego Orbiteers - Outdoor Contest Results - June 23, 2019 - Perris, CA



Coupe

<u>Flier</u>	<u>3 flights</u>			<u>fly-off</u>	<u>Total</u>	<u>Rank</u>
Stan Buddenbohm*	120	120	120		360	1
Mike Pykelny	120	68			188	2

Power - E-36

<u>Flier</u>	<u>3 flights</u>			<u>fly-off</u>	<u>Total</u>	<u>Rank</u>
Stan Buddenbohm	120	120	95		335	1
John Swain	82	116	120		318	2

Glider

<u>Flier</u>	<u>Best 3/6 flights</u>			<u>Total</u>	<u>Rank</u>
Stan Buddenbohm	68	74	86	228	1
Mike Pykelny	61	48	22	131	2

* not a member of the San Diego Orbiteers

2019 OUTDOOR FLYING SCHEDULE

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All are AMA Sanctioned & National Cup Events
(Contests at Perris CA unless otherwise noted)
(All Contests include E36, Power, & HLG/CLG)

July / August - No Club Outdoor Contests

Sept 15 - **Old Time Nostalgia Rubber**

Sept 21-22 Scale Staffel Contest*

Oct 13 - **Coupe**

Nov 17 - **P-30**

Dec 15 - **Old Time Nostalgia Rubber**

* **Non-Club Points Event**

2019 INDOOR FLYING SCHEDULE

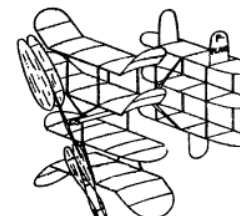
Sept 1 - P-18 & Embryo*

Oct 6 - A-6 & Phantom Flash*
Catapult Glider Event

Nov 3 - Limited Penny Plane, No-Cal* &
Canard One-Design*
(Wrisley Zephyr)

Dec 1 - P-18 & Embryo*

***Scale Staffel Event**



THE HEER ENGINEERING BEACHCRAFT BONANZA...A BUILD - Roger Willis

This was an amazing kit. I have been building stick and tissue scale models since 1994. I have built many "kits", but have not seen any with this level of quality.

(Pic #1)



The laser cutting is superb. More important was the fit. Picture #2 shows a close up of the wing to fuselage fit and some of the bones. The nose block had to be prepped for a 10" Gizmo Geezer, but that was very easy to do [pic #3].

(Pic #2)



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(Pic #3)



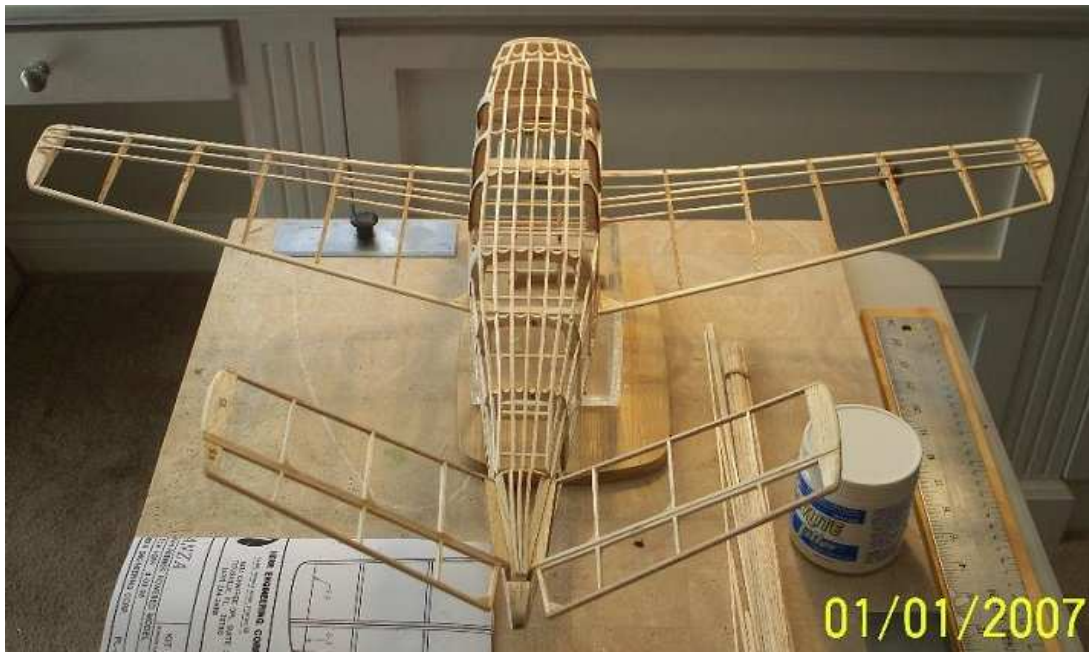
All of the formers had to be labeled, but Herr Engineering provided a very clear parts sheet to complete part labels. The completed bones can be seen in picture number 4 and 5.

(Pic #4)



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(Pic #5)



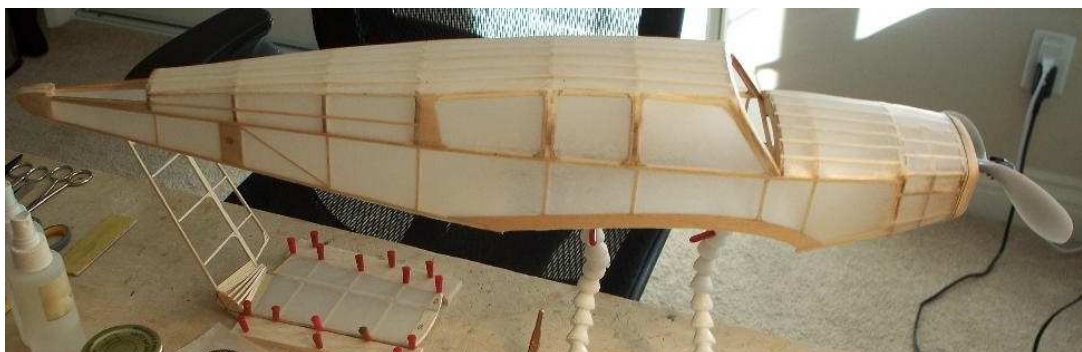
The wing was constructed in two halves and a center section. Again, the parts fit perfectly. Dihedral was set with standard “tent” tools pinned to the wing plan at the tips. The Rudderizer [V-Tail for the newbie’s] was a bit complex as it had to have a top to match up with the end of the fuselage. This required a duplicate former to the back former as can be seen in picture 5A.

(Pic #5A)



I covered the model in white Esaki tissue using two tissueing methods: crushed wet [taught to me by John Hutchison a long time ago] on all curved surfaces and dry tissueing on any parts that are flat. I used 75/25% clear nitrate dope on the bones for tissue adhesion. Picture six shows the outcomes. Washout was added to the wing during the tissueing process and the wing was pinned down, in washout, for two days.

(Pic #6)



Pictures seven and eight show the finished scale model. I chose a real Beechcraft Bonanza from a picture taken in 2013 at the Municipal Airport in Denton Texas. This plane is used by the Denton Flying Club as a rental for its members and is flown today by many folks.

This model qualifies for Modern Civilian and FAC Rubber Scale. It was a joy to build and I am looking forward to flight trimming. I am starting out with 6 strand of 1/8th by 36" for a 80% max wing of 1850, torque to be determined soon.

- Roger Willis

(Pic #7)



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(Pic #8)



San Diego Orbiteers Board of Trustees meeting.

Wednesday, July 10th, 2019

Ten in attendance, including John and Kathy Hutchison, Don and Arline Bartick, Mike and Dorothy Jester, Mike Pykelny, Mark Chomyn, and John and Ann Merrill.
Held at the Merrill's home.

Meeting called to order: By President Mark Chomyn at 7:25 p.m.

Minutes: From previous meeting were approved as published.

Treasurers Report: Was approved as submitted to the Board by Treasurer Howard Haupt.

Membership Report: John Hutchison talked to a fellow that currently builds ¼ Scale R.C. Planes, and he seemed interested in joining both Orbiteers and Scale Staffel.

Old Business:

Set date for Indoor Catapult Glider event: October 6, 2019 at the Grossmont College upper gym.

Status of sign-up sheet for towline glider event at monthly contests: It is currently in place at our monthly record trials, and is needed if someone is trying to get National Cup points.

Update on status of mulch pile plow-in at the Perris flying site: Unchanged, somewhat difficult to fly.

Weed-Wackers swap meet sale of Mike Jester items: Everything was sold either via the swap meet, or through EBay.

New Business:

Status of Grossmont Indoor venue: Good! School representatives are pleased with our program, and the report is that we should be able to fly there on the 1st Sunday of each month for quite awhile.

2019 contest schedule February make-up contest: Several changes were made to make everything fair and balanced. The September 15th contest will now be Old Time/Nostalgia instead of P-30. October 13th contest will now be Coupe instead of OT/Nostalgia. November 17th will now be P-30 instead of Coupe. Finally, the December 15th contest will be OT/Nostalgia. Naturally, the other events will still be held on the above dates as well, which include Power events and Glider.

Discussion of holding a “one-Design” contest in the future: Postponed the idea until next meeting.

Schedule next board meeting: Sept. 11th, 2019 at the Hutchison’s home.

Open for new business: none at this time.

Contest Reports:

Don Bartick reported on the Dual Clubs Free Flight Bonanza in Lost Hills, CA. The meet had 28 participants, which enjoyed both National Cup and America Cup events. Lower turnout suspected due to forecasted poor weather, yet Saturday was a decent and flyable day. Unfortunately, Sunday was only flyable until 8:00a.m., and then the forecasted bad weather showed up. The contest reports have been published previously in the E.T.

Mike Jester talked about the AMA Indoor Nationals in Eager, AZ. He reported that the 4-day contest was lots of fun, was enjoyed by roughly 60 contestants, and that it was held in a great facility. The indoor arena was huge, and featured an indoor football field and basketball court, with more room included.

John Hutchison briefly spoke about the Scale Staffel Flying Aces contest in Perris, CA. The May contest had to be moved to June 8-9, due to poor weather conditions in May. In June the contest had 11 participants, and 103 flights were made. The next scheduled contest is September 21-22, 2019.

John also talked about having a 14-gram Bostonian in the contest rotation. It can fly indoor or outdoor, and it will also qualify for Embryo events. Walt Mooney had several designs for this category.

Open Discussion/Show-and-Tell: John Hutchison passed around several old black and white photos of early Orbiteers people and some of their models. A few had Natko Antonioli, others we did not recognize. The question arose as to whom should these go to? Does anyone have an archive of old photos they would like to add these to? Contact John with ideas and/or suggestions.

Don Bartick brought a new plane he’s been getting trimmed up. The plane is called a Joule Box Mark III. It’s an E-36 designed by John Oldenkamp, and kitted by Clint Brooks. The plane was done beautifully in orange tissue with black graphics and trim. Besides the usual electronic components, it also features a remote D.T., which he demonstrated for the board.

Don said he’s looking forward to taking it to the AMA NATS in Muncie. We wish you well and good luck Don!

Call for adjournment came at 9:22p.m.

Respectfully submitted by John R. Merrill, Secretary





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San Diego Orbiters - Mid-Year Top Six Individual Point Totals (January - June 2019)

Indoor

Don Bartick	35
John Hutchison	30
Mike Jester	24
Don Brent	15
Nick Panousis	15
Greg Hutchison	8

Outdoor

Mike Jester	17
Greg Hutchison	15
Mike Pykelny	15
Don Bartick	12
Mark Chomyn	12
John Hutchison	4
Nick Panousis	4

Total Indoor & Outdoor

Don Bartick	47
Mike Jester	41
John Hutchison	34
Greg Hutchison	23
Nick Panousis	19
Don Brent	15
Mike Pykelny	15

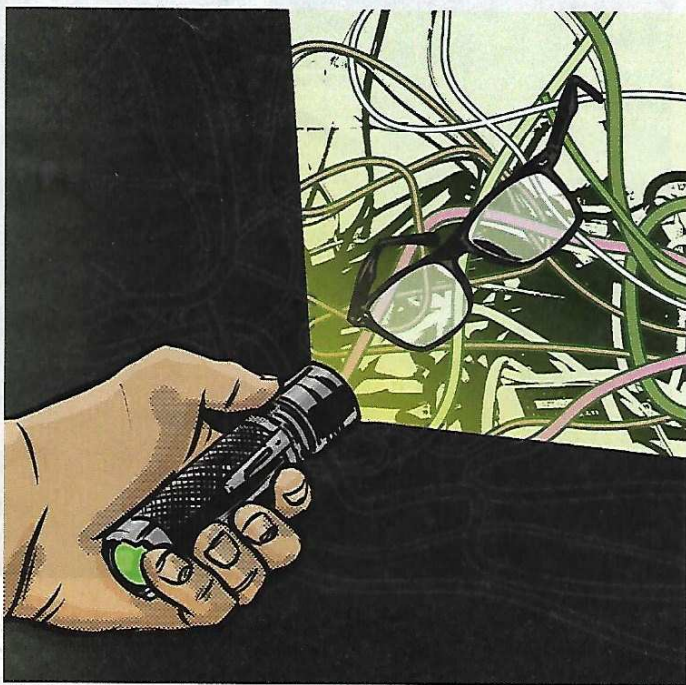


Gollywock by Don Bartick

(Photo by A.Bartick)

SHOP NOTES

EASY WAYS
TO DO
HARD THINGS



Turn Off the Lights to Find Things

Recently I mislaid a pair of reading glasses, and even though I knew they were somewhere in my office, I couldn't find them. I searched my desk and the floor, and looked under and behind the couch. No luck. So I decided to wait until dark.

As soon as the sun was down, I turned off the lights in my office and turned on my beloved tactical LED flashlight, a Fenix PD35 I bought on the recommendation of a friend, who'd bought his on the recommendation of a cop. The beam is narrow and bright. I aimed it at the tangle of cables and junk under my desk—where I'd looked several times already—and found my glasses almost immediately. My wife did the same when one of her parakeets got loose in our basement. She could hear it but didn't see it until she searched with a flashlight.

This works so well because searching with a flashlight forces you to narrow your focus. Your eyes and your attention can't wander. Your brain doesn't have to sift through masses of extraneous visual information. You truly concentrate on what you're doing—and then, suddenly, there's the cellphone you dropped when you were mowing the lawn. —David Owen

LOCATE A MISSING WEB PAGE

Sometimes, you really, really need to access a website that will no longer load. Luckily, sites can remain in Google search results for a few weeks, and if you click on the green down arrow next to a result's URL, then on "cached," you'll load a copy of the page Google saved when it was last available.

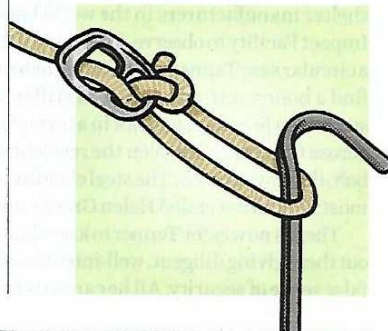
Simple Magnet Stud Finder

Take the strongest fridge magnet you've got and tie it on a length of string. Hold it so it hangs against the wall, then slowly slide it across. It'll be attracted to the nails or screws that secure the wall's wood lath or drywall to studs. Since fasteners occur at regular intervals, if you're not finding a stud, try a bit higher or lower off the ground.



Soda-Can Tab Tensioner

Straps that tighten around an anchor point, like for a tent's rain fly, are often equipped with a plastic tensioner that adjusts into place and grips the line to hold it fast. If yours isn't, improvise one with the pull tab from a soda can: Break the tab off the can, leaving a jagged edge under one of the tab's holes. Orient the tab so the jagged edge is the farthest edge from the anchor point. String line through the tab so it goes under the outer edges of the holes and over the divider between them. Wrap around the anchor point, then tie off the rope to the non-jagged hole. Give the line some slack and you can slide the tab to lengthen or shorten it. When the line tightens up, the jagged aluminum will bite the rope and hold.



ILLUSTRATIONS BY MORNING BREATH

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WHAT'S HAPPENING -

July - August 2019

July / August - **No Club Outdoor Contests**

July 24 - **Oasis Flyers Scale Meet**, (Note this is a Wednesday meet)
Perris flying site, 7:30 am to 11:00 am.
Sky Chief Mass Launch, OTRF (ROG), WW II Combat Mass Launch
2ND of a Three Contest Series, A Flying Aces Club points contest.

August 4 - **Indoor Flying**
Grossmont College (Upper Gym), 7:30 am to 11:30 pm.
Feature Events: **Limited Penny Plane & No-Cal***