

EL TORBELLINO

NEWSLETTER OF SAN DIEGO ORBITEERS FREE FLIGHT CLUB

AUGUST 2015



The Prez's Corner – Don Bartick

This will be a short article. Have very little to say other than this is good time of the year to start and/or finish your model projects. Several contests are coming up. Aside from our monthlies, we have the Scale Staffel's FAC contest, US Free Flight Championships and the FAC Regionals. Furthermore, we should be back at Grossmont College to continue our Indoor contests. There's plenty of activity for all of us. The next board meeting is coming up September 9th. One of the main topics will be a new field location. Anyone out there in Orbiteers land that has an idea with regard to finding a new field, please forward your idea to any board member. Also, we're still in the hunt for one more board member. Anyone interested, please contact me.

That's a wrap for now.

Remember: "Teamwork divides the task and multiplies the success." -Author Unknown

JULY 26, 2015 OUTDOOR MONTHLY

P-30

1. Mike Jester	360*
2. John Hutchison	360*
- Ates Gurcan	316**
3. Greg Hutchison	276
4. Don Bartick	266
5. Mark Chomyn	258
6. Mike Pykelny	251

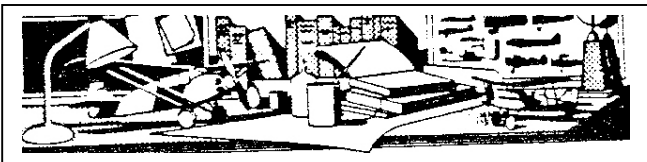
*Mike Jester won in fly off with 160 to John Hutchison's 132.

**Ates Gurcan came down from the Bay Area to see his daughter. He heard about our contest and dropped by to fly.

Power Combined

1. Mike Pykelny	301
2. Mike Jester	122
3. Don Bartick	99
4. Mark Chomyn	57

Results supplied by M.Chomyn



2015 INDOOR FLYING SCHEDULE

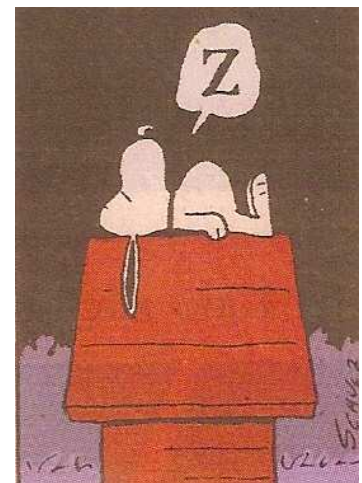
Sept 6 - Catapult Glider, Embryo*

Oct 4 - A-6, Phantom Flash*

Nov 1 - Penny Plane, No-Cal*

Dec 6 - Catapult Glider, Embryo*

***Non-ORBITEER Points Event**





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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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



2015 ORBITEER FLYING SCHEDULE

Aug 22/23 Scale Staffel FAC Scale Contest*
(2 of 3)

Aug 30 - Old Time Nostalgia Rubber
Power & Glider
(Aug. 30TH rain date)

Sept 20 - **Coupe**
Power & Glider
(No rain date)

Sept US FF Championships, Lost Hills*

Oct 18 - **P-30**
Power & Glider
(Oct. 25TH rain date)

Oct 21/25 WESTFAC V, Buckeye Az.*
Scale Staffel FAC Scale Contest*
(3 of 3)

Oct ???/?? SW FAI Champs, Boulder City, NV*

Nov 16 - **Old Time Nostalgia Rubber**
Power & Glider
(No rain date)

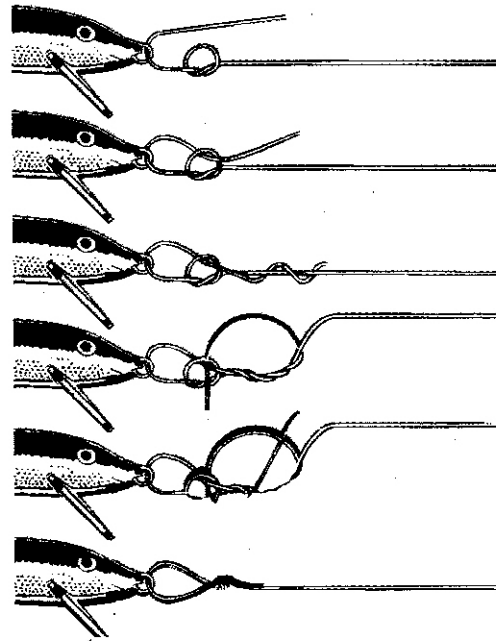
Dec 13 - **Coupe**
Power & Glider
(No rain date)

* **Non-Club Points Event**
Otay Field Weather (619) 661-8297

THE RAFAL KNOT - H.Haupt

Need to tie off some of your de-thermal mechanism with fishing line? This knot is similar in function to a bow line knot, and forms a tie off loop that will not slip closed.

THE RAPALA® KNOT™



MY JULY 18 -19, 2015 ODYSSEY IN PERRIS - M.Jester

A wolf-like creature, torrential rain, a leaking Red Lion Hotel roof - I survived them all last month in a failed attempt to compete at our July 19, 2015 Orbiteers monthly outdoor contest, which was ultimately moved to the next weekend.

We are fortunate to be allowed to fly at the SCAMPS field in Perris, California, at no cost, after losing our long-time flying site in Otay Mesa. And just think, no more model airplanes lost to Mexico! However, it's at least an hour and a half drive for me to get to Perris from Coronado. I got spoiled only having to drive twenty minutes to our old site on Alta Road. I found out the hard way that I cannot drive to Perris on a Friday afternoon, unless I want to be ready for a three hour drive due to rush hour traffic.

My wife, Dorothy, and I drove up to Perris early Saturday morning, July 18, 2015. I wanted to re-trim my P-30s and practice with a new outdoor CLG that I built, after my last one flew away at Otay. The National Weather Service had predicted a 20% chance of rain on both Saturday and Sunday. The remnants from tropical storm Dolores were threatening to reach Southern California from Baja California.

It was raining steadily, but not heavily, when we got to Temecula, so we stopped at McDonald's for some breakfast hoping that the rain would pass. We arrived at the SCAMPS field about 9:00 a.m. There were a few puddles, and some sprinkles now and then. There was also intermittent sunshine. I got in some good flying before the rain started to come down steadily around 1:00 p.m. Here is a picture of me launching my new CLG on Saturday.



While getting one of my models ready for flight on Saturday, Dorothy shouted to me that there was a wolf nearby and that I should get in the car with her for the sake of my own safety. Here is a picture of the wolf-like creature that was about fifty to seventy-five feet from me. I was standing at the rear of our Ford Expedition and had a very heavy winder that I could swing as a weapon should the creature attack. I was sorrier for the creature than afraid of it. He decided to move on. I sent the picture to a veterinarian friend of mine, and he said it was definitely a dog.



On the way out of SCAMPS field we followed a pickup truck that had come from the RC field. He was sliding all over the muddy road. We drove on the dried grass to avoid that problem.

We checked into our room at the Red Lion Hotel Saturday afternoon. We got one of the two suites on the third floor. I decided to leave my airplane stuff in the car and we had a great Mexican lunch at the Jiminez restaurant. There turned out to be a few problems with our suite at the Red Lion Hotel. The room was very dark because four LED light bulbs had apparently been stolen. The hotel recently changed out all its incandescent light bulbs to LED light bulbs, probably to save on its electric bills. At a retail price of \$8 - \$9 per LED light bulb, the prior guests must have decided to help themselves to several of them. It took a while for the maintenance man to fix this problem. So check your room for light bulbs when you first enter your room at the Red Lion Hotel. Later on we had water dripping from two separate leaks in the ceiling of our suite. Water was coming in at a pretty good rate. It appeared to Dorothy that the water might be forming a reservoir in the ceiling and that the drywall might cave in. So we moved rooms. We got the last available room in the hotel, at a slightly reduced rate.

I was in contact with Mark Chomyn via email Saturday about the conditions at the field and the local weather. It was still raining in Perris late in the afternoon. Around 5:00 p.m., our contest director, John Hutchison, wisely decided to cancel the Orbiteers July 19 contest. After having a big carnitas lunch Dorothy and I decided to skip dinner.

On Sunday morning, July 19, 2015, Dorothy and I had a late breakfast at the Red Lion Hotel. I was hoping that since the sun was out, it might dry the dirt road to the SCAMPS field. I made a nice waffle with the Red Lion logo. I know from experience how much anti-stick spray to apply to the griddle surfaces and exactly how much waffle batter to pour on the griddle. I wish I could be as consistent in my model airplane flying endeavors.



Dorothy and I set off for SCAMPS field at approximately 9:00 a.m. Driving down the main paved road just before the dirt road turn off, we saw a FLOODED sign posted. One half of the swinging metal gate was closed. We drove past open side of the gate and found the dirt road to the SCAMPS field to be in surprisingly good condition. The creek was full. It was warm and sunny until 1:30 p.m. and I had a great day of flying. There were thermals galore and it was pretty easy to get a max. Only a few RC guys were out there with me. I recently put a new prop clutch on my Gollywock and was able to observe it free wheel in flight. Here is a picture I took of my Gollywock after it landed that day showing the dry ground. Note the shadow of the wing from the sunshine.



Around 2:00 p.m. on Sunday there was a very heavy rain storm in Perris. Fortunately by that time we were sitting in our car in the parking lot of the Jack In the Box restaurant next to the Jiminez restaurant. There were rivers of water flowing down the streets of Perris. Anybody still at the SCAMPS field would very likely have had their vehicle stuck in the mud. Dorothy and I drove home to Coronado, knowing that had John not called off the contest the day before, many fliers arriving early on July 19 would probably have encountered two closed gates barring access to the SCAMPS field. Luckily, I had a couple of great days of outdoor flying, and a lot of good exercise retrieving my airplanes!



HOW TO

Stick Stuff Together

USING THE RIGHT GLUE MATTERS. THIS IS WHY.

A GLOSSARY



MECHANICAL BONDS: Hardened glue interlocks with the nooks and crannies of the surface in question.



COVALENT BONDS: Two molecules share electrons.



HYDROGEN BONDS: Molecules that have strong dipoles, or positive and negative sides, align with each other, like magnets.



VANDER WAALS FORCES: More complicated than hydrogen bonds, but similar. Kind of a transient, moving attraction, like being stuck in traffic with the Dallas Cowboys cheerleaders, in separate cars.

THE BOND

THE GLUE

WHY

WOOD
TO
WOOD

Polyurethane
Gorilla Glue

➔ After penetrating the wood, part of the glue molecule, called an isocyanate group, makes a **covalent bond** with part of the cellulose in the wood. It also reacts with water in the wood. This reaction gives off carbon dioxide, which is why wood glue sometimes foams and why you need to apply pressure to the joint while the glue cures. Once dry, the glue also forms a network of **mechanical bonds** with the wood.

PLASTIC
TO
PLASTIC

Cyanoacrylate
Loctite Super Glue

➔ Two different groups in cyanoacrylates allow the water on the surface of the plastic to start the cure. This happens rapidly, often within seconds, making the glue bond to itself and harden. This creates **mechanical bonds** between the porous plastic and the glue. **Van der Waals forces** secure the bond.

CERAMIC
TO
CERAMIC

Cyanoacrylate
Loctite Super Glue

➔ Again, trace amounts of water on the surface of the ceramic launch a reaction that hardens the superglue. Ceramics have a porous surface, which makes for strong interlocking **mechanical bonds**.

GLASS
TO
GLASS

Modified silane
adhesives
Loctite E-30CL
Hysol Epoxy

➔ Glass is made of silica with a hydroxylated surface that likes to form a **covalent bond** with silane (a silicon atom surrounded by four hydrogens) in the adhesive, creating a strong hold.

COTTON
TO
COTTON

Polyvinyl acetate
(PVA) craft glue
Aleene's Tacky Glue

➔ Groups on the end of the PVA called esters form **hydrogen bonds** with part of the cotton's cellulose. You also get **mechanical bonds** between the porous fabric and the adhesive.

WOOD
TO
PLASTIC

Cyanoacrylate
Loctite Super Glue

➔ Cyanoacrylate's ability to spread over and penetrate a variety of surfaces makes it ideal to bond unlike materials, but beware: Super-glues are brittle when they harden, and if the materials expand on account of temperature or humidity, the glue can fail. — MATT GOULET

With thanks to Connie Howe, senior manager of technical services at the Adhesive and Sealant Council.



SCIENCE FOR COCKTAIL PARTIES

➔ **Sodium laureth sulfate**, an ingredient in soap, is a molecule that has one side that likes water and one side that likes oil. When you wash your hands, the side that likes oil sticks to grease. The other side sticks to the water, and the whole mess goes down the drain.



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WHAT'S HAPPENING - AUGUST / SEPTEMBER 2015

Aug. 22/23 **Scale Staffel FAC Scale Contest**, 2ND in a series of 3 contests.
SCAMPS Field, Perris CA., 7:00 am.

Aug. 30 Orbiteer Outdoor Monthly, (NOTE: Rescheduled Date)

SCAMPS Field, Perris CA., 8:00 am.

Feature Event: **Old Time Nostalgia Ruber** Other Events: **Power & Glider**

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Sept. 6 - **Indoor Flying**, Grossmont College (Upper Gym), 7:30 am to 11:30 am.
Feature Event: **Catapult Glider**, Other Event: **Embryo***

Sept. 9 - **Orbiteer Board Meeting**, 6:00 pm.
Mike Pykelny's residence, 14450 Maplewood St., Poway 92064

Sept. 20 **Orbiteer Outdoor Monthly**,
SCAMPS Field, Perris CA., 8:00 am.
Feature Event: **Coupe** Other Events: **Power & Glider**