

EL TORBELLINO

NEWSLETTER OF SAN DIEGO ORBITEERS FREE FLIGHT CLUB

JUNE 2013



The Prez's Corner – Don Bartick

The Dual-club contest is now in the vault of memories. The story and pictures are in this issue.

Arline and I attended the memorial services for Cezar Banks and Fudo Takagi.

In the case of Cezar, the memorial was held at Anthony's Restaurant in El Cajon. The gathering of family and friends in an area next to the lake was very fitting. There was a picture memorial chronicling his life that we all signed for the family. It was great to meet his family and share their stories.

In the case of Fudo, the memorial was held at the San Diego Aerospace Museum Annex at Gillespie Field. The nieces did a spectacular job organizing this event. It was the first time that we have been at this museum. It is worthy of a return visit to see the collection and their restoration facility. The family prepared a very nice booklet that chronicled his life along with a display of memorabilia going back to 40's. He was a quiet man, but made an enormous impact on the nieces. Many stories were shared along with a picture presentation. Having known Fudo for over 30 years, I had no idea of the life he led. My favorite BBQ restaurant, Phil's BBQ catered the event.

The final thermal took them OOS. Goodbye for now.

The third of 3 indoor rotations was held Sunday, June 1st. Penny Plane was contested with 7 entries. It was the first for me to build and fly a Penny Plane. A great

experience. I'm liking this indoor venue. No wind, no chasing Look in the ET for results.

The monthly contest continues to host a nice turnout.

This is a wrap for now.

Remember: idle hands are the tools of the devil. Go build & fly something.

MONEY MATTERS - H.Haupt

05/13/13 thru 06/13/13

Income:

Dues (3)	45.00
Dual Club Gold Card	35.00
Dual Club Proceeds	796.45

Expenses:

May Newsletter	5.70
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Current Balance \$ 1,327.54



2013 ORBITEER FLYING SCHEDULE

June 9 - Coupe, Power, & Glider

June 16 - SCAMPS Contest*, Perris CA

July 4 - Walt Mooney Annual Scale Contest

July 21 - P-30, Power, & Glider

Aug 18 - Nos. Rubber, Power, & Glider

Aug 5 - Scale Staffel FAC Contest* (1st of 2)

Sept 15 - Coupe, Power, & Glider

Sept 20-22 US FF Championships, Lost Hills

Oct 20 - P-30, Power, & Glider

Oct 26-27 SW FAI Champs*, Boulder City, NV

Oct 27 - Scale Staffel FAC Contest* (2nd of 2)

Nov 17 - Nos. Rubber, Power, & Glider

Dec 15 - Coupe, Power, & Glider

*** Non-Club Points Event**

Otay Field Weather (619) 661-8297

ORBITEERS YEARLY MEMBERSHIP DUES

Junior - \$10

Senior - \$15

Open - \$25

Family - \$30

65+ - \$15

Lifetime - \$250

Non-Member Newsletter Subscription - \$15

Submit Dues to Club Treasurer:

Howard Haupt

3860 Ecochee Avenue

San Diego, CA 92117-4622

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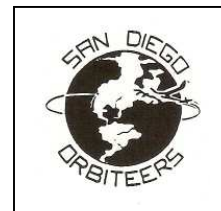
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Results of the Dual Clubs Free Flight Bonanza A National Cup Event

May 18-19, 2013
LOST HILLS, CA

Don A. Bartick, San Diego Orbiteers, Event Coordinator

Don Bartick, San Diego Orbiteers, Contest Director

John Olan., Fresno GMC, Contest Director

The annual Dual Club Free Flight Bonanza is the joint annuals for the San Diego Orbiteers and Fresno Gas Model Clubs. This being the 57th and 75th annuals respectively for the clubs. Having dual club participation in waning attendance significantly reduces the overhead to put on a successful event. It has worked well over the past 10 years. This year had a definite setback as perennial Fresno GMC Contest Director William (Bill Booth, Sr.) passed away. In his honor, this year we dedicated the contest to his memory. The Fresno GMC created the Bill Booth, Sr. Memorial award for this year and the years to follow. The award is for high time in Old Time Gas events. The inaugural event was won by Carl Redling. He received a trophy made especially for this event. This is not a perpetual trophy. Each year the Fresno GMC will create a new trophy for this award. All in all the weather was very cooperative. Temperature on the field went from the mid 50's to mid 80's each of the 2 days. Saturday was good to great and Sunday was very flyable till 1pm. We ended the contest an hour early because the winds came up. Everyone was through flying anyway. Our drawing for the 50/50 cash, presentation of awards and drawing for merchandise was held an hour later. Then people packed to go home.

The scheduled Saturday noontime 1-hour break from flying for lunch and the now famous Ice Cream Social worked out especially well as in the past. Left over ice cream and condiments are giving to the local Lost Hills Fire Department. The 2nd year of the new tradition having a Saturday night potluck feast went off very well. Dan Heinrich, is the organizer and added to the menu sirloin hamburgers grilled to perfection. Participants are asked to bring a side dish or desert.

Unfortunately, the attendance continues to decline. Not like the good ole days. We are older and many on fixed incomes. The economy and fuel prices definitely has its' toll.. There are fewer new comers to the hobby. But we did see a couple of new faces this year. In particular was the second and third generation of Bob Stalick's family. His son and grandson. Grandson Alex participated in the Junior events. Once again Doug Mayer brought his 2 sons that are AMA juniors to participate in the Junior Catapult Glider event.

The Fresno GMC again brought an incredible amount of merchandise for their drawing. Every event entry that the Fresno club sponsored was given a raffle ticket (up to 3). Don't know of anyone that went away empty handed.

Special thanks to wife Arline, who spent a lot of time and effort in preparation and support of the contest. She also handled the camera duty. Along with her pictures.

Forty two (34) senior/open and 4 junior flyers registered for the meet. These flyers participated in 88 events. We had 4 separate events for the juniors. This year, we provided 7 X 9 rectangular plaques made of alder with laser etched artwork for participation awards. They were given out to each registered contestant. We then awarded laser etched gold, silver and bronze placards for event placement. The placards could then be mounted on the participation award.

Highlight of the contest: The most contested event this year was AMA 1/2A Gas. We had 7 flyers slugging it out in the event with Matthew Kruse taking the gold. AMA C/D combined was next in popularity with 6 entrees. Also, to be noticed is the participation in Vintage FAI. The third annual Tom Carman Memorial drew 5 entries to battle for the big bucks made possible by Jim Hurst. The weather stayed very flyable throughout the evening allowing for the very popular Night Flying event. Most notable this year was the rise in participation in AMA events. For several years, Nostalgia event participation lead. What was heard on the field that flyers are getting back to modern events because they are more exciting. Another noticeable increase in participation was E-36 with 4 participants. New comer Don Kasier gathered the gold.

Several events had 0-1 entrees. These events will receive future scrutiny from next years' Contest Directors and Event Organizer.

Until next year, have many delightful FF moments. *Don Bartick, Ramona, CA*

For the record

<u>Place</u>	<u>Name</u>	<u>Seconds</u>	<u>Place</u>	<u>Name</u>	<u>Seconds</u>	<u>Place</u>	<u>Name</u>	<u>Seconds</u>
DAWN P-30 (4)			P-30 (2)			DAWN MULVIHILL (2)		
1	Clint Brooks	147	1	Clint Brooks	690	1	Carl Redlin	502
2	Don Bartick	116	2	Don Bartick	317	2	Don Bartick	98
3	Jr.Brandon Martin	60						
½ A Gas (7)			A Gas (5)			B Gas (3)		
1	Matthew Kruse	523	1	Matthew Kruse	495	1	Phil Ronney	471
2	Bob Scully	490	2	Ray Peel	470	2	Jeff Carmen	382
3	Hulan Mathies	432	3	Hulen Mathies	433	3	Mike Morgan	347
C/D Gas (6)			Hand Launch Glider (4)			Hand Launch Glider Jr. (4)		
1	Jeff Carman	870	1	Sevac Malkhasyan	407	1	Alex Stalick	32
2	Don Kaiser	652	2	Lee Hines	301			
3	Al Cron	649	3	Ralph Ray	253			
Catapult Glider, (4)			Catapult Glider , Jr (3)			Tom Carman Memorial (5)		
1	Ralph Ray	519	1	Alex Stalick	289	1	Jeff Carmen	514
2	Stan Buddenbohn	396	2	Brandon Martin	162	2	Ken Kaiser	360
3	Lee Hines	378	3	Mason Mayer	14	3	Ray Peel & Hulen Mathies	180
Classic Towline (3)			Early ½ A Nostalgia (1)			¼ A Nostalgia (2)		
1	Matthew Kruse	440	1	Doss Porter	431	1	Don McNamee	393
2	Doss Porter	216				2	Glenn Schneider	373
3	Alan Peterson	120						
½ A Nostalgia (2)			A Nostalgia (3)			B Nostalgia (5)		
1	Don Bartick	505	1	Don McNamee	1366	1	Ray Peel	529
2	Hulan Mathies	180	2	Daniel Heinrich	525	2	Glen Schneider	527
			3	Doss Porter	428	3	Hulan Mathies	485
C Nostalgia (2)			NOS Rubber/Wakefield (1)			½ A Classic Power (2)		
1	Glen Schneider	472	1	Bernie Crowe	300	1	Bob Sundberg	720
2	Ted Firster	143				2	Jr. Brandon Martin	374
½ A Texaco (2)			Texaco (2)			SM. OT Rubber Stick (4)		
1	Bob Sundberg	26:28	1	Jeff Carmen	6:10	1	Carl Redlin	720
2	Doss Porter	14:11	2	Brad Leune	2:37	2	Clint Brooks	591
						3	Ted Firster	144
LG. OT Rubber Cabin (1)			A Pylon (1)			B/C Fuselage (1)		
1	Ted Firster	65	1	Ray Peel	314	1	Daniel Heinrich	87
B/C Pylon (2)			Night Gas (3)			FAI Vintage Power (4)		
1	Carl Redlin	513	1	Daniel Heinrich	562	1	Ken Kaiser	900
2	Ray Peel	377	2	Jeff Carmen	180	2	Glen Schneider	786
			3	Dan Heinrich	783	3	Daniel Heinrich	783
E-36/A/B comb (4)								
1	Don Kaiser	600						
2	Bernie Crowe	591						
3	Sevak Malkhasyan	360						
	Electric Demo							

MAY INDOOR at Grossmont College

Indoor at Grossmont		Phantom Flash ROG							
May 5th 2013									
CD: L Miller		BEST 3 of 6 flights						SDO	
Flights:		1	2	3	4	5	6	Totals	Indoor Club Pts
Pilots									
Don Bartick	28	39	48	67	72	72	211	7	
Mike Jester	43	46	52	40	64	59	175	6	
John Hutchison	38	32	14	52	42	54	148	5	
William Scott	24	34	46	48	34	54	148	4	
Mark Chomyn	39	40	42	43	48	48	139	3	
Richard Woods	32	20	58	24	29	6	119		
John Merrill		27	16	16	33	25	85	2	
Larry Miller	17	10	11				38	1	
Bill Hill	4						4		
Greg Hutchison									
Notes: William Scott and John Hutchison settled 3rd place with a flyoff.									
We had a good turnout with 10 entrants									
Everyone seemed to enjoy the competition!									

JUNE INDOOR RESULTS at Grossmont College

Indoor at Grossmont: Penny Plane									
June 2nd 2013									
CD: L Miller		BEST 2 of 6 flights						SDO	
Flights:		1	2	3	4	5	6	Totals	Indoor Club Pts
Pilots									
Richard Woods	223	96	313	312			625		
John Hutchison	89	269	50	47	47	251	526	4	
Greg Hutchison	164	176	219	212	234	54	453		
Larry Miller	160	198	240	139	48	48	438	3	
Don Bartick	67	40	218	219	53	36	437	2	
Mark Chomyn	171	160	188	166	180	176	346	1	
Notes:									
Local indoor activity is improving at our monthly competitions!									
Our flyers are building better. Lots of testing and refinements are taking place.									
Everyone is gaining experience and is willing to share with others.									
Our friend Richard Woods from Phoenix visits us regularly.									
He has only been building Indoor for a short period of time, but his progress is reflected in June's indoor results..									

FROM THE WORKSHOP

This column, "From the Workshop", has become a one man show. It is available for all members to share what they are working on. Just visualize it as a replacement for the "Show & Tell" we had at the close of our business meetings. Just take a few pictures of what your latest and greatest project. Send it my way for inclusion in this section of the newsletter. John Merrill is feeling lonely seeing only his pictures here each month.

John Merrill has supplied several photos of his first coupe built, called Slats, built from a R/N kit with considerable lightening.

The 2nd series of photos are a finished Sky Scraper, from a Fresno's Model repo kit. It was originally designed in 1940, and kitted by Scientific Models, according to Mark Chomyn.

A Curtiss P-40 is just now being started with no pictures of it this month.

THE COUPE 'SLATS':



SKYCRAPER:



Naval Postgraduate School's hand-launched Taleuas is being designed to ride thermals to extend endurance.

Wind Beneath Wings

Using wind shear, thermals and gusts to create lift could allow unmanned aircraft to fly longer

David Hambling Berlin

A robotic albatross gliding at 200 mph is a dramatic demonstration of how wind power can be harnessed. But it is just one of several projects showing how unmanned aircraft can use air currents, from thermals and ridge lift to wind shear and

even turbulence, to increase their endurance from hours to days.

The robotic albatross is the brainchild of Philip Richardson of the Woods Hole Oceanographic Institution (Mass.). Like its feathered counterpart, the aircraft harnesses wind

shear—the difference in wind speed at different heights—in a technique called dynamic soaring. Albatrosses can cross thousands of miles of ocean this way without flapping their wings, and Richardson has shown how an artificial version can do the same. But because of its greater structural strength, the UAV should achieve much higher speeds.

The albatross's dynamic soaring is limited to low altitudes, but a study by Lehigh University in Pennsylvania suggests wind shear associated with high-altitude jet streams is sufficient for dynamic soaring. The high wind speed also means a UAV could be powered

U.S. NAVAL POST GRADUATE SCHOOL

PAGE TWO

indefinitely from an onboard ram-air turbine.

Lehigh Prof. Joachim Grenestedt and his team are building a special glider, the JetStreamer, able to tolerate high speeds. The wing will have laminar flow for low drag and a carbon-fiber structure strong enough to withstand a 20g turn and stiff enough to prevent flutter and divergence. Low-altitude dynamic soaring experiments will start this year with a conventional small-scale glider. A jet-stream soarer could provide a continuous presence for weather monitoring; other uses may not be realistic near-term, as the aircraft relies on the presence of jet streams, which are not always predictable.

On land, soaring birds take advantage of thermals—bubbles of rising warm air—and the ridge lift produced when a prevailing wind strikes a slope. Kevin Jones of the U.S. Naval Postgraduate School in Monterey, Calif., is developing a hand-launched UAV called Taleuas (Tactical Long Endur-

ance Unmanned Aerial System) to ride thermals in the same way. After a few minutes powered flight, the Taleuas can lock into a thermal and spiral upward. Jones says it can fly all day without using the motor. The next stage will see the addition of solar cells and an improved battery to collect and store energy so the aircraft can keep flying all night as well.

Other researchers have looked at ways for autonomous gliders to find an updraft. Mike Hook of Roke Manor Systems in the U.K. has developed a suite of sensors and software for the purpose. It can identify promising spots for ridge lift and where thermals are likely to occur, as well as the more powerful lee waves downwind of hills. Route planning allows an aircraft to travel from one thermal or updraft to another, while avoiding downdrafts.

Even brief gusts of wind buffeting an aircraft can be harnessed. The Reactive Controller for Harvesting Gust Energy (Recharge) system, developed

by Area-I of Canton, Ga., includes sensors and software to predict air movement and turn the aircraft into a wind to gain height. Recharge also minimizes the effect of turbulence by reducing the gust load on the airframe. Area-I says the system could provide a simple upgrade to increase the endurance of small UAVs used by the U.S. military. A demonstrator will complete flight tests on an Insitu Integrator later this year.

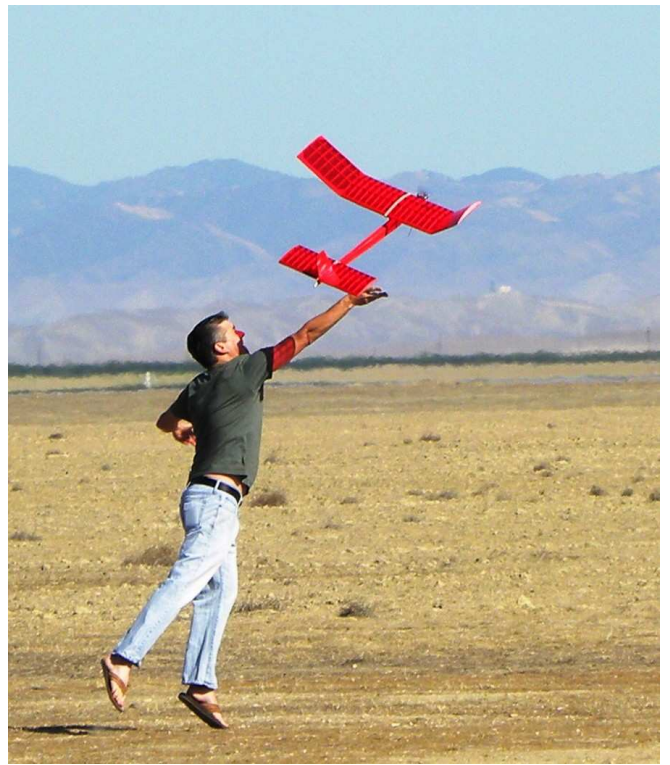
Longer term, more advanced sensors may emerge. James Hubbard at the University of Maryland has looked at a lightweight laser radar that can see air currents at a distance, as well as conformal sensors built into an aircraft's skin that provide UAVs with a bird-like awareness of air currents around them.

Further ahead, UAVs literally may be able to see the wind. A team from Rochester (N.Y.) Institute of Technology has flown an unmanned aircraft with an infrared camera and software to detect thermals from a distance, with some success. ☺

WISHING TO SEE THE WIND - EDITOR

The last two paragraphs of this article sure got my attention. "... has looked at a lightweight laser radar that can see air currents at a distance, " Now there is an App that I would like to add to my smart phone when it becomes available.

2013 Dual Club Picture Page One
Photos by Arlene Bartick



2013 Dual Club Picture Page Two
Photos by Arlene Bartick



2013 Swap Meet

San Diego County Association of Model Clubs

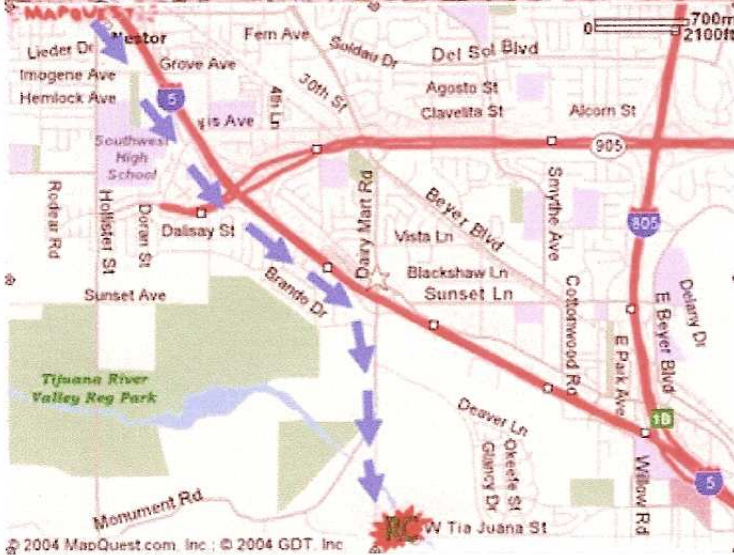


Sellers: \$5.00
Buyers free admission

Bring your current AMA card and fly after the meet

Saturday
Time: 07:00AM-12:00PM
No Prior Entry!

July 20, 2013



Sponsored by the Chula Vista Model & Radio Control Club

Contacts: Shaun Evans (619) 944-7574
Don Hille (619) 225-8181

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TAKE INTERSTATE 5 SOUTH, EXIT DAIRMART ROAD, GO SOUTH (RIGHT), CONTINUE JUST PAST THE BRIDGE AND TURN LEFT (LOOK FOR CLUB SIGNAGE).

SAN DIEGO ORBITEERS
Howard L. Haupt / Editor
3860 Ecochee Avenue
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WHAT'S HAPPENING - JULY 2013

- July 4 - Walt Mooney Annual Scale Contest, Otay Mesa, 8:00 am.
- July 7 - Indoor Flying, Grossmont College (Upper Gym), 7:30 am to 11:30 am.
Feature event: A-6
- July 17 - 2013 Swap Meet – San Diego County Association of Model Clubs, South Bay,
(See enclosed flyer on this event)
- July 21 - **Orbiteer Outdoor Monthly**, Otay Mesa, 8:00 am.
Feature Event: P-30 Other Events: Power & Glider

