

EL TORBELLINO

NEWSLETTER OF SAN DIEGO ORBITEERS FREE FLIGHT CLUB

DECEMBER 2014



The Prez's Corner – Don Bartick

I want to first express my gratitude to our El Torbellino editor, Howard Haupt for creating a wonderful tribute issue to our fallen Orbiteer, John Oldenkamp. Thank you to all that provided photographs.

The year is wrapping up quickly. One more monthly to get under our belt and we can celebrate a great year of indoor and outdoor competition. What is very impressive to me is we have new folks winning the competitions. Orbiteers like Greg Hutchison, Mike Jester and Mark Chomyn are a force to behold. The old guard is sort of fading. Good for you guys. I definitely need to hone my game.

The December Board meeting coming up in a couple days will be a busy one as we set the competition calendar for next year; make final preparations for the Annual Awards; finalize our thoughts toward celebrating the 40th Anniversary of the P-30 becoming an official AMA event at the 2015 Isaacson Winter Classic next February; visit the progress being made by the Website committee; etc. Look for the minutes in this issue of ET.

Arline and I wish each and every Orbiteer and their family a wonderful Holiday Season. See everyone at the banquet.

That's a wrap for now.

Remember: "High expectations are the key to everything"



San Diego Orbiteers Board of Trustees Meeting

Wednesday, December 17, 2014 at John Hutchison and Kathleen McLaughlin's home.

Ten in attendance, including Don and Arline Bartick, Mike Pykelny, Mark Chomyn, Mike and Dorothy Jester, our gracious hosts, and John and Ann Merrill.

After a wonderful Mexican feast, the meeting was called to order at 6:55 p.m.

Minutes of the Previous Meeting: Mike Pykelny made the motion that the minutes of the last meeting be approved as published. Mike Jester seconded the motion, and it passed unanimously.

Treasurer's Report: A report was sent via email to all board members by our esteemed Treasurer, and after very little discussion Mark Chomyn made the motion that the report be approved. Mike Jester seconded the motion, and it passed unanimously.
Membership Report: no new members, and no current prospects. No further report.

Old Business:

Awards Banquet: Mark Chomyn reported that the banquet is all set to go at Giovanni's Restaurant on Clairemont Mesa Blvd. on Saturday, January 24th at 1:00 p.m. Both the Orbiteers and Scale Staffel normally put up \$100.00 to be spent on door prizes, and the cost is normally recouped by the raffle at the banquet. Mike Pykelny made the motion to have the Orbiteers fund the \$100.00. Mike Jester seconded the motion, and it passed unanimously. Mark Chomyn is in charge of rounding up the door prizes. Ralph Ray has donated a beautiful trophy, which we will use for a perpetual prize for first

place in hand-launch/catapult-launch glider. Ribbons will be given as well.

Checking account: Done! We now have a checking and a savings account with NO fees at Union Bank. Both Howard Haupt and Don Bartick are signers on the account. Thank you to Howard for getting that set up.

Website hosting/webmaster committee report: Mike Jester has looked into a company called Wix, which has templates to set up websites. John and Kathy are going to contact their grandson Guy, who helped set up Scale Staffel's website, to see if he would be willing to help create something for the Orbiteers.

Membership Campaign: there was some discussion of a website called "Meet-up", where people with various interests, organizations, and hobbies can join related groups. Mike Pykelny agreed to look into the site to see if it would be advantageous for us.

Recommendations for 1 additional Board Member: no recommendations at this time. If anyone wants to volunteer, please let us know, we would be happy to have you!

New Business:

2015 Contest Calendar: we put the dates together for all of next year's contests, and they are as follows:

January 25th P-30

no rain date

February 15th Old Time/Nostalgia Rubber

rain date Feb. 22nd.

March 15th Coupe

rain date Mar. 22nd.

April 18&19 Scale Staffel contest/Perris CA

April 26th P-30

no rain date

May 15&16 Dual Club Annual- no local contest in May/rotation skips

June 14th Coupe

rain date June 28th.

July 4th Walt Mooney Annual w/Scale Staffel

July 19th P-30

rain date July 26th.

August 16th Old Time/Nostalgia Rubber

rain date Aug. 30th.

August 22nd &23rd Scale Staffel contest/Perris, CA

September 20th Coupe

no rain date

October 18th P-30

rain date Oct. 25th.

October 21-24 WestFAC in Arizona

November 15th Old Time/Nostalgia Rubber
rain date Nov. 22nd.

December 13th Coupe

rain date Dec. 20th.

40th Anniversary of the AMA P-30 event/John Oldenkamp Tribute at the 2015 Isaacson Winter Classic:

the contest is February 7th and 8th, 2015 in Lost Hills, CA. Don Bartick has been in contact with a few of the event organizers, and it has been proposed that we (the Orbiteers) host a special award in memorial for John Oldenkamp. All agreed that is most appropriate. Don proposed having the Hot Box (J.O.'s P-30 design) be a "one-design" model flying within the P-30 contest, hoping that the majority of entrants will be flying that model. The highest place finisher flying a Hot Box would get half of the \$100.00 prize money. If they come in first place, naturally they get all \$100.00. Harry Steinmetz has graciously agreed to fund \$40.00 of the prize, so the club shall put up the remaining \$60.00.

Other New Business: it was decided to make one of next year's P-30 contests be strictly for the Hot Box, in memory of John Oldenkamp. It will be the April 26th contest. It is reported that they are fairly simple to build, so everyone should have time to get one built and ready. John Hutchison made the motion that the Orbiteers fund a \$100.00 prize and a plaque to go to the winner of this contest. Motion seconded by Mike Jester, and it passed unanimously.

Mike Pykelny has been told that there will be no services for John Oldenkamp.

The question was asked by a non board member about a future club auction. None has been scheduled.

Schedule the next Board Meeting: it will be held and John and Ann Merrill's house on Wednesday, March 11th, 2015 at 6:00 p.m. Contest Reports: December's contests (the regularly scheduled one and the rain date) have both been washed out. Mark Chomyn has put the spread sheet together with all of

the contests and winners for the year, as well as the cumulative points. That's a big job, so thank you Mark!

Open Discussion: Mike Jester said that his email has been hacked, so if you get any strange-looking emails from him, don't open them! That has happened to many of us.

Good of the Order: Kathy McLaughlin is the featured "artist of the month" at the La Mesa Library. That is quite an honor!

Mark Chomyn bought a CD on eBay for only \$14.00, and it has close to 200 plans, from old Ace Whitman and Comet kits. They are easily taken to a print shop, as they are all on PDF files.

Meeting Adjourned at 9:01 p.m.

Respectfully submitted by John R. Merrill,
Secretary

2015 INDOOR FLYING SCHEDULE

- Jan 4 - A-6, Phantom Flash*, No-Cal*
- Feb 1 - Phantom Flash, No-Cal*
- Mar 1 - Penny Plane, Phn. Flsh*, No-Cal*
- Apr 5 - A-6, Phantom Flash*, No-Cal*
- May 3 - Phantom Flash, No-Cal*
- June 7 - Penny Plane, Phn. Flsh*, No-Cal*
- July 5 - A-6, Phantom Flash*, No-Cal*
- Aug 2 - Phantom Flash, No-Cal*
- Sept 6 - Penny Plane, Phn. Flsh*, No-Cal*
- Oct 4 - A-6, Phantom Flash*, No-Cal*
- Nov 1 - Phantom Flash, No-Cal*
- Dec 6 - Penny Plane, Phn. Flsh*, No-Cal*

***Non-ORBITEER Points Event
2014 FLYING POINTS TOTAL**

Mark Chomyn a complete listing submitted a complete listing of all monthly points earned for the year both Indoor and Outdoor. Totals for the year are also included for each category. See the spread sheet attached to the same email that brought you this newsletter for all the details. As a spoiler, the 1ST thru 3RD points totals are listed below.

2014 Indoor Points

- 1. Greg Hutchison 56 points
- 2. Mike Jester 52
- 3. John Hutchison 49

2014 Outdoor Points

- 1. Greg Hutchison 95 points
- 2. Mike Jester 81
- 3. Mark Chomyn 60

See spread sheets delivered with this newsletter for all the details on the Indoor and Outdoor points standings .





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ORBITEERS MEMBERSHIP DUES

Annual Membership - \$15
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.

ORBITEER WEB SITE

www.SanDiegoOrbiteers.com

Webmaster: Bob Beecroft

FROM THE WORKSHOP

This column provides a venue for the sharing of projects under way by members of the club.

John Merrill has reported in with some update info and pictures of what is happening on his building board.

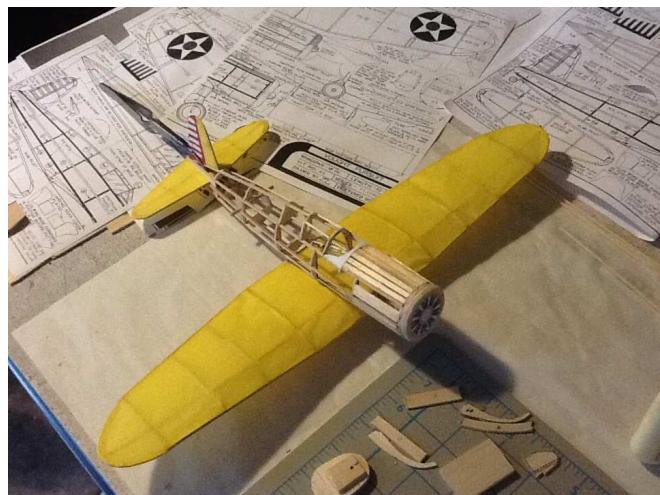
The first is an update to a Dime scale started a month or so ago of a Vought Pursuit V-173. Many believe it was the basis of the famous Japanese Zero.

Next are the fuselage bones of next years FAC one design model of the year. Scale Staffel will fly this at all of their contests next year. By the registration number included with the kit, it is a Piper J-4 from 1938, called

the Cub Coupe. That particular airplane is currently registered in Tehachapi California, and it came with a Continental A-50 engine. The tail pieces and most of the wings are done as well, and hope to have it finished up in a few weeks.

The final pictures are of a finished model, a PT-19, Walnut scale from Dumas. I think the wing span is 17.5" or so.

The next project most likely be a P-30 designed by John Oldenkamp. Was given the plans by Mike Jester, so will start on it as soon as the holidays are over.



Vought Pursuit V-173



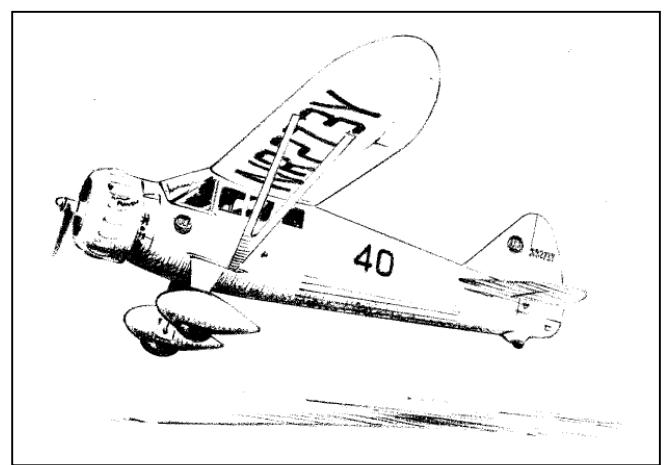
Piper J-4



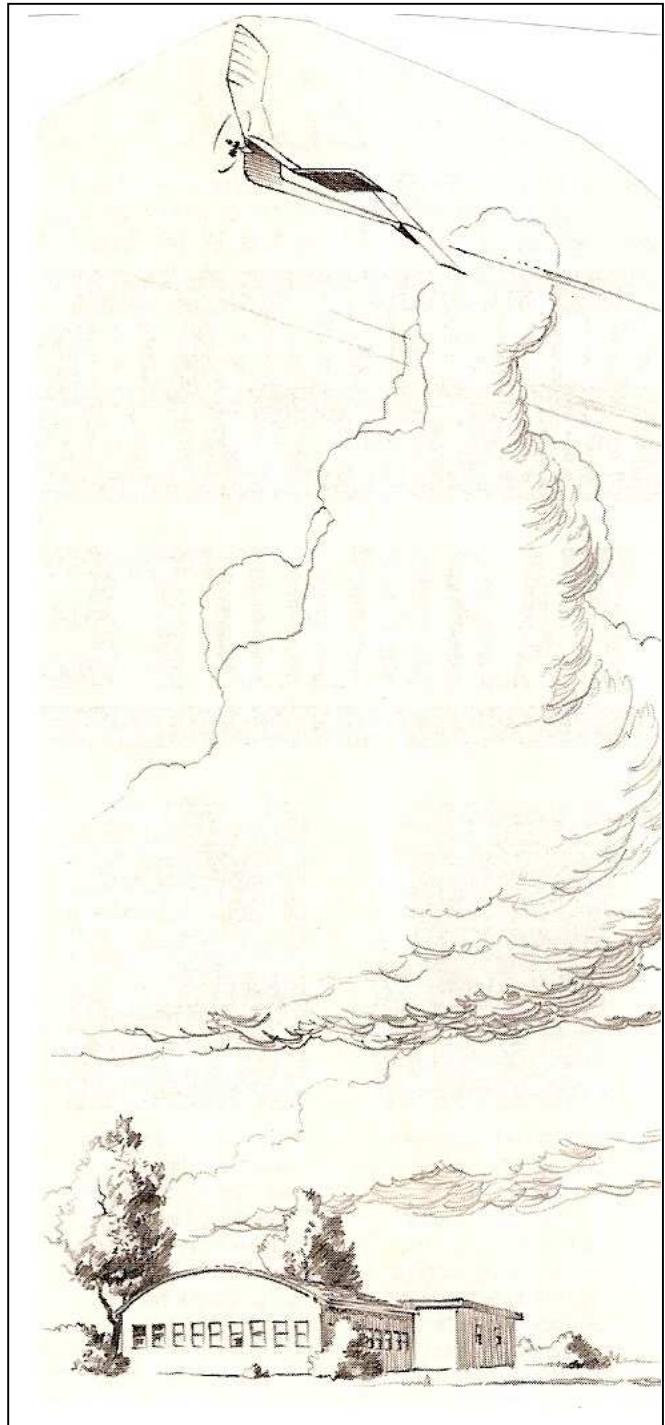
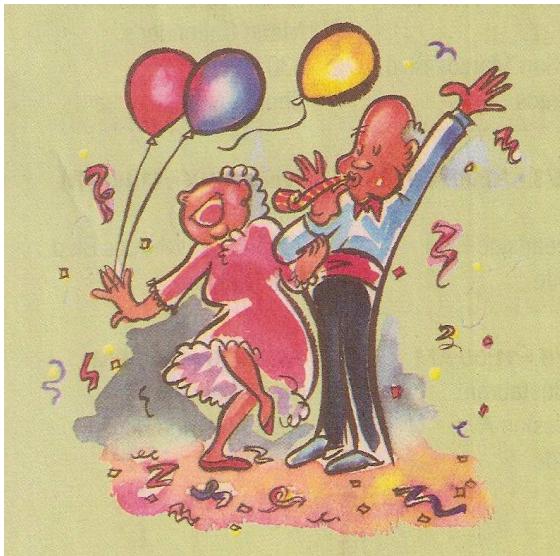
PT-19



PT-19



ORBITEER & SCALE STAFFEL ANNUAL BANQUET - JAN 24TH



WHEN & WHERE:

Saturday, January 24TH at 1:00 pm

At GIOVANNI'S Restaurant
9353 Clairemont Mesa Blvd.

WHAT & COST:

Italian Buffet, which includes:
s/b Salad, Spaghetti, Lasagna, Pizza,
Garlic Bread, & Beverage.
All you can eat for \$15, tax & tip included.

We will be charged for a minimum of
20 people, so come on out and join the
party.

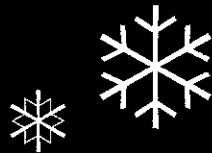
THE PROGRAM:

- Eat, Drink, and be Happy
- Annual flying awards presentation
- Show and tell
- Raffle, donations are welcome
- Sharing of tall tales mandatory



The Isaacson winter classic

February 07 - 9, 2015 at Lost Hills, California



Join us for one of the premier West Coast Free Flight Contests! We are again hosting the Kiwi New Zealand FAI World Cup. All FAI classes are America's Cup. AMA and NFFS classes are National Cup. This is a Cat. II contest.

Saturday FAI Events

Kiwi - New Zealand World Cup!

F1A, B, C, P & Q

Round Schedule: Saturday 2/07

1	8:00am–9:00am
2	9:00am–10:00am
3 - 7	on the hour, to 3pm

Round One Maxes:

F1A 210 seconds

F1B, C&P 240 seconds

F1Q 180 seconds

Fly-Off Schedule:

Round eight, 5 minute max.

F1A 3:30pm–3:40pm

F1B 3:45pm–3:55pm

F1C/P/Q 4:00pm–4:10pm

Additional rounds to be announced

Frank Zaic Awards*

For limited function F1X models

Grand Master Award

For best performance in F1AB or C by a sportsman over 75

Roger Morrell, FAI Event Director

Saturday Only! 8am - 5pm

The Paul MacCready Human Power World Championship for Hand Launch Glider

Cash prizes donated by Bill Vanderbeek and Bud Romak - see additional flier

E-36 - AMA rules

E-36 World Open Mass Launch

Sat. evening-see additional flier

NEW! E-20 NFFS Prov. Rules

Bud's Buddies Big "E"

Unlimited+ Rubber, AMA Rules

Vintage FAI Gas

Five rounds, NFFS rules

AMA HHCLG - NC Pts.

Monday! "Kiwi" World Cup - Slope Soaring F1E

10:00am – 3:00 pm. Five rounds, 60 minutes each. Peter Brocks, Event Director

Saturday (continued)

Gollywock One Design 3 - 3min max

Gollywock Mass Launch

Sat. Evening TBA. Everyone flies! A Bob White Event!

NOS Gas

1/4A, 1/2A & C. Separate events.

AMA Gas

C, D, Sup. D Combined. Classes will be separated for NC pts.

Sunday FAI

F1G, H, J* & S

F1S - Proposed sm. elec. AMA E36 spec.

10s MR, 2 min. max. 5s FO MR

*F1J - contingent on pre-entries (4- min)

Round one, 8:00 am! Champagne Flyoff!

Time to the ground. Round Schedule:

Rounds 2-5, two minute max.

1 8:00am–8:45am

2 9:00am–9:45am

3 9:45am–10:30am

4 10:30am–11:15am

5 11:15am–12:00pm

Fly-Offs will begin at 12:15 noon and finish by 3:00. At 3:00, any remaining ties will be broken by using Champagne Flight Times.

Sunday Only! 8am - 3pm

Paul MacCready Human Powered World Championships AMA Catapult Launch Glider

Cash prizes - see flier

NOS Gas A, B & Early 1/2A

AMA Gas 1/2A, A & B Combined

AMA HLG - NC Pts.

NEW! P-30 40th Anniversary / Orbiteers / John Oldenkamp Tribute

\$200 cash purse! See flier

Large NOS Rubber-NFFS Rules

Bob White Award for top NOS Wake

Classic Glider NFFS Rules

Lee's BTV West, 12"CLG. See Lee

Contest Directors:

Norm Furutani

15423 Haas Ave.

Gardena, CA 90249

(310) 323-1943

norginf@gmail.com

Roger Morrell

1916 B Gates Ave.

Redondo Beach, CA 90278

(310) 374-2136

r_morrell@yahoo.com

Register Fri. 1pm

Entry Fees:

"Kiwi" World Cup events \$25
All others, \$15.00 - includes one event. Additional events \$5.00 each.

All must be current member AMA /MAAC and Lost Hills Assoc. World Cup events require an FAI License.

Awards: Sunday 4pm

Jr.-Sr. Open Class combined. First through third, each event.

Perpetual Gollywock and Nos. Wake awards, courtesy of Bob White

Awards Ceremony and RAFFLE!

Winners MUST be present!

Additional information: Go to <http://www.regroups.com/forums/showthread.php?t=2297572>

Monday, reserve day for FAI Events.

*In memory of
our dear friends,
Bob and LaVera
Isaacson*



San Diego Orbiteers

Presents the
40th Anniversary of the P-30 Event

At the 2015 Isaacson Winter Classic
February 7 - 9

Dedicated to Event Co-creator John Oldenkamp
(1931-2014)



>> \$100 1st Place plus plaque

>> \$100 Highest Place for flying

John Oldenkamp's Hot Box P-30 design

as published in Model Builders Magazine, July, 1977

***You can have 2 paid entries; (any P-30 & Hot Box P-30);
both scores count***

**Hot Box plans available through AMA's Plans Service - Plan #773;
at 5161 E. Memorial Drive, Muncie, IN 47302-9252;
Phone: 1(800)-435-9262 x 507; gregp@modelaircraft.org;
www.modelaircraft.org/plans.aspx;
or PDF file available from Don Bartick
(email: dbartick@4-warddesign.com)**

**February 7-9, 2015 Lost Hills, California
The Isaacson Winter Classic and Ralph Ray Present:**



**The
Paul MacCready
Human Powered World Championships**

**For
Hand Launch and Catapult Gliders
CASH Prizes!**



Thanks to the generous donations from Bill Vanderbeek and others!

**Saturday, February 7: Hand Launch Glider
Sunday, February 8: Catapult Glider**

AMA Rules apply!



On Opposite days:



**National Cup Contest
For
Catapult and Hand Launch Glider**

No prize money but these events count for National Cup Points

**Saturday, February 7: Catapult Glider
Sunday, February 8: Hand Launch Glider**

Two contests will give you twice the opportunity to fly your favorite events! Both contests will be run from the same table at the Glider Pen, sign up at the main CD table.

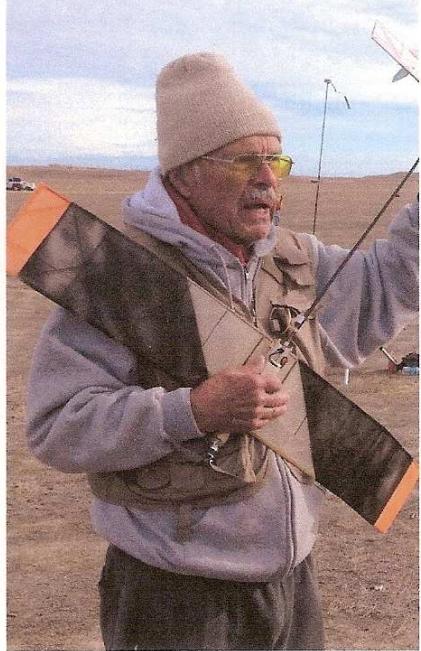
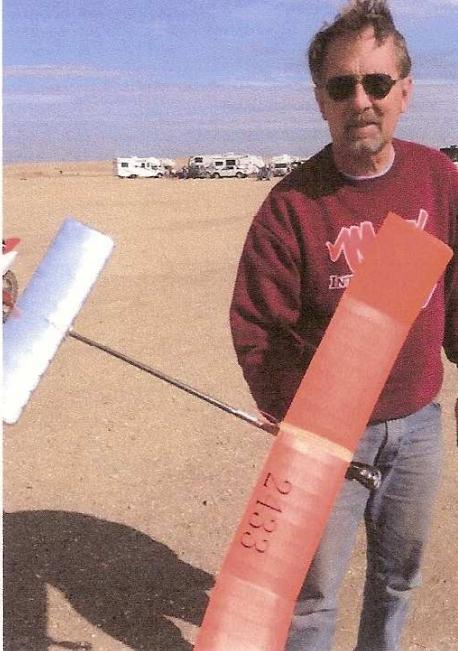
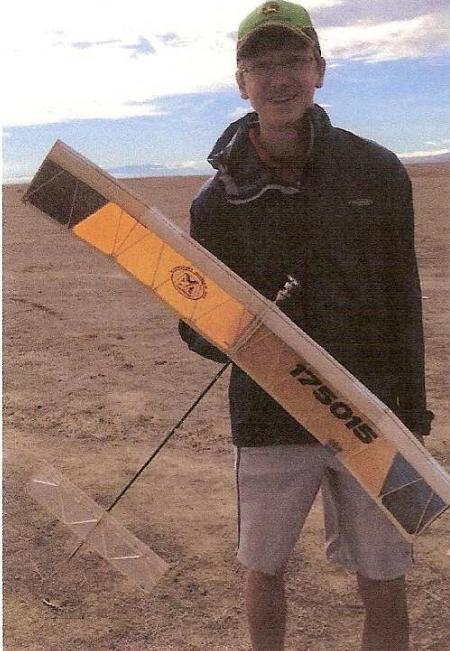
**For more info contact:
ralphray@earthlink.net or Norm at norginf@gmail.com**



**Permission to use Dr. Paul MacCready's name granted by:
Dr. Tyler MacCready**

2ND E-36 World Open

Feb. 7, 2015 at the Isaacson Winter Classic



The World Open is a composite (two-part) event:

1. Saturday, February 7th, 8 a.m. - 5 p.m. The regular Isaacson E-36 event flown to AMA rules. Three flights plus flyoffs. No rounds.
2. Saturday February 7th, ~5:15-5:30 p.m. Single attempt for single unlimited "champagne flight" timed to the ground, 15-second (or 10s in case of sustained wind over 3 meters per second) motor run. Launch window will be a 10-minute FAI-style round from a flight line. Models must meet all AMA E-36 rules. In case of wind over 6 meters per second the champagne flight will be delayed until Sunday morning.

World Open Rules

1.E-36 World Open champion will be the flyer who has the highest composite placing in the two days' events. Each event counts equally, for half of your final score. Points allocation is based on percentage of the winning score in each event.

2. Tiebreaker one: champagne flight ***placing***.
3. Tiebreaker two: additional flyoff.

Sample calculations

Say the two winning scores are: AMA E-36, 645 seconds; Sunday champagne flight, 185 seconds.

Contestant A, John's AMA E-36 score: 583s (90.4% of the first place time), champagne flight score: 157s (84.9%). John's *World Open* score is 87.7%.

Contestant B, Steve's AMA E-36 score: 559s (86.7%), champagne flight score: 167s (90.2%). Steve's *World Open* score is 88.4%. **Steve wins the World Open title.**

Awards to third place. Merchandise and cash...TBD. (*Sponsors welcome! Contact D.DeLoach*)

Entry: Isaacson entry fees apply (no extra fees to enter the *World Open*). Norm Furutani (Isaacson CD), norginf@gmail.com; Don DeLoach, ddeloach@comcast.net



By John Croft

Senior Avionics and Safety Editor
John Croft tweets @AVweekJC
john.croft@aviationweek.com

COMMENTARY

Birds of a Feather

Dangers to airliners from small UAVs may be more hype than substance

The threat of a hobbyist flying a small, light, remotely piloted aircraft into the path of a commercial aircraft may be overblown due to the rigorous certification standards already in place for other unidentified flying objects—birds. Those rules cover the airframes, empennage, windshield, engines and certain

sensors for birds weighing as much as 8 lb. while the aircraft is traveling at speeds greater than 300 mph. Joining the birds are a new generation of quadcopters, exemplified by devices like the DJI Phantom Vision 2+ (see photo), a quadcopter that weighs around 3 lb. and has a top speed of 19 kt., characteristics similar to a large gull except for the lithium polymer battery. Priced at \$1,200, the Vision 2+ comes complete with gyro stabilized camera mount, and those who have tested it say it has an operating range of almost 0.5 mi. and flight time of 20 min. Photos and videos can be sent to social media in near real time, raising the temptation for doing something extreme that will go viral on the Web.

U.K. officials have no idea if a similar kind of off-the-shelf quadcopter came very close to hitting an ATR 72-500 in May, an incident that drew sensationalist coverage and spurred headlines including “Airliner nearly collides with drone” when the information was released by the U.K. Airprox Board in October. The ATR 72 was flying at 1,500 ft. and lining up for an instrument approach to the Southend Airport, east of London, when the first officer “saw a remote-controlled quadcopter very close to the right wingtip,” according to the report. The captain did not see anything. “The co-pilot formed the impression that the quadcopter had been flown deliberately close to the ATR 72 because he had seen it around 100 meters [328 ft.] away as it approached from the right-hand side and made a turn to fly in the opposite direction to his aircraft, around 25 meters away



DJI

and at the same level,” the board states. There were intermittent radar returns in the area, but nothing definitive. The board ultimately decided that “there was too little information available to make a meaningful analysis of the occurrence or to accurately assess the risk.” Members said they were “disappointed that someone would fly a quadcopter so high on the extended approach path to an airport, and that despite the valuable assistance of local [unmanned air vehicle] operating companies, no one had come forward to complete an Airprox report.”

U.K. rules allow for hobbyists to fly a remotely piloted vehicle weighing as much as 15 lb. in the uncontrolled airspace 4.2 nm southwest of the airport where the incident occurred, as long as the operator keeps visual tabs on the vehicle and does not engage in reckless activity. Commercial activity is not allowed. In the U.S., hobbyists can legally fly a radio-controlled aircraft as high as 400 ft. in uncontrolled airspace, well below the capability of off-the-shelf quadcopters. Commercial operations also are not allowed in the U.S., though

forthcoming small unmanned aircraft rules could change that.

Rules or no rules, as the number of small, low-cost remotely piloted aircraft boom, the devices will undoubtedly come into conflict sooner or later with an air transport aircraft near an airport. The probability for harm when that happens is potentially no different from the risks already occurring from collisions with birds, and those are threats airlines fly with on a daily basis around the world. To mitigate the bird threat, the FAA and European certification standards require an airframe to handle the impact of a 4-lb. bird at high speeds and a windscreens to handle the same size bird without splintering the inner ply. The FAA also requires an aircraft’s empennage to survive a collision with an 8-lb. bird at high speed. Both the FAA and Europe have stringent requirements for engines, which include ingesting single birds weighing 4-8 lb. and multiple birds weighing 1.9-2.5 lb., all while continuing to produce thrust at some level.

Behind the numbers is the “strike energy,” a function of the mass of the bird and aircraft’s velocity-squared. For a light bird, an aircraft can absorb the impact at much higher speed than for a heavier bird; the same would logically apply to unmanned aircraft up to a certain size, though some actual testing would certainly raise the comfort level.

For bird strikes, a large body of forensic evidence identifies the expected frequency and costs to operators. The FAA’s Wildlife Strike Database for 2013, the most recent data, shows that damaging strikes occurred about once every 100,000 aircraft movements for air transport aircraft, or 241 cases in the U.S., none of which caused an airliner to crash. There were 10,856 bird strikes in total for the year, 501 of which caused damage. Since 1990, birds have caused near \$600 million in damage, mostly in direct repairs. Taking the brunt of the impacts were windshields (16%), with engines, noses, radomes, propellers and fuselages coming in at lesser values.

The gulls that rival the Vision 2+ quadcopter in size caused \$53 million in damage over the 23 years, a significant amount that draws virtually no headlines. ☀

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



WHAT'S HAPPENING - JANUARY 2014

Jan 4 - **Indoor Flying**, Grossmont College (Upper Gym), 7:30 am to 11:30 am.
Feature Event: **A-6** Other Events: **No-Cal Scale, Phantom Flash**

Jan 24 - **Annual Orbiteers Banquet, Giovanni's** (Kearny Mesa), 1 to 4 pm.

Jan 25 - **Orbiteer Outdoor Monthly**, Otay Mesa, 8:00 am,
Feature Event: **P-30** Other Events: **Power & Glider**

FEBRUARY 2015

Feb 1 - **Indoor Flying**, Grossmont College (Upper Gym), 7:30 am to 11:30 am.
Feature Event: **Phantom Flash** Other Events: **No-Cal Scale**

Feb 7/8/9 **The Isaacson Winter Classic**, Lost Hills CA, Events start at 8:00 am.
Three special events are being held under the umbrella of the Isaacson Winter Classic.
They are P-30 40TH Annv. Event, Paul MacCready Glider Contest, & E-36 World Open.
See enclosed flyers' for all details.

Feb 15 - **Orbiteer Outdoor Monthly**, Otay Mesa, 8:00 am,
Feature Event: **OT Nostalgia Rubber** Other Events: **Power & Glider**