

AMA Charter Club #128  
<http://www.1hss.org>



HSS is the oldest AMA chartered R/C Soaring Club  
 in the USA. Founded 1964  
 Silver Leader Club since 2009

SEPTEMBER 2010

Volume 47

## THIS MONTH'S HEADLINES

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### Coming Events and Soaring Competitions

August - October 2010

The following events are of special interest. .

- Tuesday Sept 7. **HSS General Meeting**, 7 PM. Round Table Pizza 11075 Warner. Exec meeting 6:15 PM.
- Sunday August 29. Sixth SC2 soaring competition. Hosted by TOSS at Redwood School, Thousand Oaks, CA. See details and mat at [www.toss.freesevers.com](http://www.toss.freesevers.com)
- Sunday Sept 19. Seventh SC2 soaring competition. Hosted by HSS at SWSA Fish Canyon field, Irwindale, CA. See details at [www.1hss.org](http://www.1hss.org) and [www.silent-wings.org](http://www.silent-wings.org) .
- Tuesday Oct 5. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting at 7 PM. Exec meeting at 6:15.

See Page 5 for a complete events schedule.

### A NEW SOLAR POWERED ENDURANCE RECORD! BIG SCOOP BY THE "PLANE RAP" STAFF.

The Qinetiq Zypher, an 18 meter solar powered twin motor UAV recently set an endurance record of 14 days and 24 minutes at a desert test facility in Arizona.

See photos and aircraft details on pages 2 and 3 of this issue.



**Zephyr and a New Solar Powered Endurance Record: 14 Days, 24 Minutes!**

The Zephyrs were built by QinetiQ, formerly part of the United Kingdom's MOD (Ministry of Defense). They have been making assaults on the solar powered endurance record for the last several years.

The older version of Zephyr is shown at right. This photo shows the launch team of 3 members just after takeoff. Two members hold the outer wing panels and one person holds the fuselage. Together they run and toss the plane into the air. Don't ask "What if one guy trips?"



QinetQ released the following announcement on September 10, 2007:

The Zephyr solar-powered plane has set a new (unofficial) world record for the longest duration unmanned flight - 54 hours including two full nights. This smashed the official world record of under 31 hours set in 2001 by a USAF [Global Hawk surveillance aircraft](#), and the 48 hour unofficial flight by Allan Coconi.

Now, with their new record of 14 days and 24 minutes, QinetQ released the following about their redesigned Zephyr.

Powered only by PV solar panels with rechargeable battery backup, The Zephyr is an ultra-light solar powered aeroplane designed to fly as high as 25 miles for weeks or months without landing. At such heights it will fly far above most weather and the commercial air-lanes in the sky. Therefore it will potentially revolutionize communications acting as a platform far cheaper than the satellites sent into orbit today.

Zephyr Technical Specifications:

Zephyr is a High Altitude Long Endurance (HALE) Unmanned Aerial Vehicle (UAV) made from carbon-fibre. It has a wing span of 18 metres and weighs in at just 30 kg - so light, it can be launched by hand. Propulsion is provided by two electric motor driven propellers.

Power is from an array of ultra-thin amorphous silicon solar cells (United Solar Ovonic) which cover the upper surface of the wings. During the daytime any excess generated power is used to recharge lithium-sulfur batteries (from Sion Power) which power the motors during the night.

Your editor's source has been through Jim Hynes of Continental Controls, who provided the following:

Paul Davey who has been program manager for 5 years provided these comments and the photos of the record setting plane.

"The flight went really well, 14 days and 24 minutes.

Forward looking video shots from 70kft were impressive, if poor quality, it's dark up there!

Mid-level wind caused a few problems half way through the flight but they managed to go under it for 2 days.

Batteries were superb, no cell hardware failures although some s/w snags that are easily sorted.

They should get the FAI records in a month or two."

The latest version with drooping wing tips and T tail is shown below. The story on the wing tips has not emerged, but we will publish it when it becomes available. Your editor is trying to be polite and not laugh. At least it held together for 2 weeks. At last report, the 18 meter wing was still of single (non-joined) construction requiring a massive shipping container. The Lithium Sulphur batteries are under development, and are reported to give over 400 Watt-Hours per kilogram. Note that our Lithium Polymer cells are about 150 to 200 Watt-Hours per kilogram, so we should soon have another major development for electric powered models.



**Zephyr and a New Solar Powered Endurance Record: 14 Days, 24 Minutes! (continued)****Update on Rob's Hobbies**

We have some new information on one of our favorite hobby shops and sponsors to HSS. In place of the special 7.75% discount that is shown in their advertisement towards the end of this newsletter, they are now offering a flat 10% off to HSS club members. This does not apply to sale items, but that's 10% that you don't pay tax on. Also, in order to assist those that show up at Rob's without their HSS identification card, we are providing Rob's with our membership list so that all you have to do is mention that you are an HSS member and they can confirm that on the spot. Now how is that for service?

**New Club T-Shirts**

Karl Hawley is placing an order for new HSS shirts. However, he needs to place a \$400 minimum order, so if you need a new or replacement shirt, contact Karl. They have the club logo on the back in full color, and a small sailplane on the front. These high quality shirts are priced as follows: T-Shirt, no pocket, \$5; T-Shirt with pocket, \$7; Golf shirt with a polo collar and a front pocket, \$13. These are available to all members.



**HSS Meeting Minutes for August 3, 2010 HSS Minutes tcb**

I. The executive meeting was called to order at 6:15 p.m. by Henry Smith III. In attendance were President Henry Smith III, Vice President Chris Adamczyk, Newsletter Editor Fred Hesse, General Director John Anderson, Treasurer Dennis Anderson, Competition Chairman Ross Thomas, and Secretary Ted Broberg.

A. Fred told us that he has a presentation ready to describe to the general membership about the club's proposed web site redesign. (See II. D, below.)

B. Mike Fox donated a HiTec NEON four-channel FM transmitter for tonight's raffle. Dennis Anderson contributed a bag of servos and parts for them. Thank you, Gentlemen!

II. General Meeting, called to order at 6:56 p.m. Also attending were Fred Wilmott, Bob Voss, Henry Smith IV, Jim Hanson, Jerry Hunter, Ralph Chamberlin, Larry L. Koch, Mike Fox, Bill Lawrence, Jim McDonald, Chris Hill, Lucille Olszlewski, Jim Sonnenmeier, Jeff Green, Walter Stewart, and Roger Nahas.

A. Henry told about a problem the first evening of this year's Tuesday Concerts in the Park (presented by the City of Costa Mesa). Several fliers (we think they were not club members) were impolite to the City's security personnel, and Park Superintendent Robert Staples got complaints the next day. Henry and Karl went to the field the following Tuesday Concert evening, and met the City's new Ranger, a pleasant lady. They spoke to the fliers. Henry thinks we'll see some improvements in the attitudes and actions of the "late shift."

B. Larry Koch said the new wind-indicator is almost ready.

C. Henry asked us to put together some kind of Fun Fly/contest soon. Please contact Henry to volunteer.

D. Fred Hesse described a proposed redesign of the club's web site. Details are given in the article immediately following these minutes. A motion to adopt the proposal was moved and seconded; a discussion was held, questions resolved, and the motion was passed. Steering Committee will meet soon to discuss it further (see the minutes of the 6 August 2010 Steering Committee meeting below).

E. John Anderson reminded us that we need to elect officers for the next year. **VOLUNTEERS NEEDED!**

F. Chris will be meeting with the city engineer regarding the water and electrical installations soon.

G. Ross: September 19th, our club will be hosting the SC 2 soaring contest at SWSA's Irwindale site. We will need scorers and landing judges. We'll be using their equipment. Jim Hanson will be the Contest Director. It'll run from about 8:00 a.m. to noon or 1:00 p.m. Please let Ross know you'll be there to help! (714) 638-0705.

H. Featured speaker, Chris Adamczyk: **BUILDING LIGHT-WEIGHT COMPOSITE PLANES**. He uses Mylar, Kevlar, fiberglass, and carbon fiber over HiLoad 60 blue foam. He makes his own ballast tubes and tubes for wing servo wires by epoxying fiberglass over K & E aluminum tubes, with Vaseline as a release agent. (Henry says McMaster and Carr sells a variety of release agents). ACT and CST web sites are good sources for Kevlar, but Aircraft Spruce has it for lower prices. Ace Hardware's lightweight Spackle is his filler of choice, to fill dings and dents. Nitrile gloves are a good choice to protect your hands; **EPOXY IS A CUMULATIVE RISK**. It can be absorbed through the skin. **USE GLOVES (AND VENTILATION -- Fumes are hazardous, too.)**

-- "Bagging wings is the fun part." He spreads the resin with either a credit card, or with a short-nap paint roller from Ace. Cleanup solvent is acetone or denatured alcohol. Just throw the little fuzzy roller away. He measures his resin and hardener by gram weight, rather than by volume. (Harbor Freight has gram-ounce-pound scales for around \$20. They measure up to 11 pounds.) There are fast and slow hardeners. Chris laid up glass and Kevlar over a foam core for a sailplanes' flying stab. He rolled and squeegeed the epoxy carefully over the covering material, and laid it between sheets of grease-proof paper (wax paper), carefully lining every layer up, and then sandwiched it between the "beds" of foam from which the stab had been hot-wired to shape. Then he lays "breather cloth" (paper towel over thin plastic sheet) over the assembled pieces, and slips it all into a vacuum bag. Ends of the bag are sealed with clips, and he attaches the suction pump's hose to the bag's fitting. The vacuum pump is left to cycle on and off overnight, so the epoxy is fully cured.

He'll leave the elevator he built tonight in the "beds," in the vac bag, until he unveils it at next month's meeting.

I. Henry Smith IV showed a model DeHavilland 84 DRAGON he bought that was CO2 powered, which he converted to brushed electric motor. It was a free-flight plane, but now it's an R/C.

J. Drawing: Ralph Chamberlin won the HiTec NEON transmitter contributed by Mike Fox. Walter Stewart won the AVEOX motor and speed control set (gift of Dennis Anderson), and the Multiplex TWIN STAR was won by Mike Fox.

-- Meeting adjourned at 8:57 p.m. Respectfully submitted, Ted Broberg, Secretary.





**HSS Executive Meeting Minutes for August 6, 2010**

I. Executive Committee meeting: In attendance were President Henry Smith, Vice President Chris Adamczyk, Treasurer Dennis Anderson, Newsletter Editor Fred Hesse, Competition Chairman Ross Thomas, and Secretary Ted Broberg.

A. Plans for the electric and water lines to the kiosk were discussed.

1. Karl has been in contact with the City's engineer. Fred and Chris will work with Karl in choosing an electrical junction and utility box, to recommend to that engineer. Chris has planned an appointment with the parks department to work out details for water connection.

2. Water line: We'll need to provide a water meter, back-flow preventer, and valve, per the city requirements.

B. Fred: Web site organization:

1. He recommends staying with the existing Headings (Home, Coming Events, Competition Results, Newsletter, etc.), but using a different organization of the content. We discussed the several items on a list of suggestions Fred provided, to determine which to use on the new website. Dennis warned that we must consider the threat of hackers invading the roster, if it were to be posted on the site. Henry also has concerns about site security.

C. Need for new officers for 2011: Who's willing?

D. Ted: John Rittenhouse (who donated this month's TWIN STAR) has offered several more model planes for our raffle. He'll confer with Ted soon. Henry checked the back room of his shop for possible raffle items, and found none.

-- Meeting adjourned at 5:30 p.m. Respectfully submitted, Ted Broberg, Secretary.

**Results of Meeting With Parks Department**

Our Vice President Chris Adamczyk, has been working to get a water main connection and electrical power so we can grow a grass landing strip for gliders, and provide 12 VDC power for flight battery chargers. He reports on his latest meeting Tuesday August 17<sup>th</sup> with Robert Staples as follows.

The meeting went well, for a start. I was told by the City Engineer that we could not connect to domestic water, but when he saw the size of the scheme and the fact that the original irrigation system called for potable water usage he was agreeable.

1: We have to locate the water line and pot hole the location as they don't know what sort of pipe is in the ground, I'll bring a metal detector from work.

2: Complete the proposed plumbing and wiring plan that will be situated at the new kiosk.

3: We need design calcs from an electrical engineer or city approved contractor for the power supply, covering the voltage drop to the bath room block and the load usage at the installation, is the size of the wire in the lines sufficient for the load.

**2010 HSS Membership**

Membership Applications can be obtained from any club officer, or available on our club web site at [www.1hss.org](http://www.1hss.org). Applicants must be members of the AMA prior to joining HSS. AMA Membership applications can also be obtained at the AMA web site [www.modelaircraft.org](http://www.modelaircraft.org). Download document No. 902 from the publications page. At this late date HSS membership is only \$10, but you will save a little by waiting until November 1, 2010 as both HSS and AMA offer 2011 memberships starting then. You get November and December 2010 for the price of all of 2011.



**PROPOSED HSS WEB SITE**

The following is a condensed version of the presentation made to HSS members at the August 3<sup>rd</sup> General Meeting.

Our initial goal since early 2009 was to use a content management system that allowed relatively unskilled administrators to maintain our web site. Unfortunately the prototype system was not completed, so our web site has suffered from neglect recently. By chance, a company called Connect2Clubs has contacted Henry Smith concerning updating our existing web site. Here is what was proposed to the general membership.

**Introduction:**

Connect2Clubs.com is a web site design company located in Texas (877-767-6567), run by John and Anel Ryan. They feature a content management system (CMS) called DotNetNuke developed by a company in San Mateo, CA.

**Cost:**

The site design list price is \$259. This cost covers the design steps listed below, plus unlimited tech support and training. They offer web site hosting for \$10/month or \$100/year for a site size of 800 MBytes. Up and down link speeds are to be supplied, but are stated as "fast". They require a \$150 deposit through Paypal or credit card. On line payment is highly desired.

**Design Effort:**

The overall effort can take 2 to 3 weeks, and requires some HSS participation. Everything is done on a test site that we have private access to. The steps are:

1. They set up a test site, and transfer our existing site material to the test site. Our old site remains operational.
2. Next a conference call is held in which we review the desired content.
3. They develop the design.
4. We review the design on the test site, make revisions, then approve.
5. We pay the remaining costs of design and hosting.
6. They then conduct on line (conference type) training sessions, as needed.
7. They transfer our site URL and go on line. Our old site then goes off line from our existing provider.

**Documentation:**

We presently have their three pdf files containing about 1,500 pages of User Manuals. Interestingly, they say that their training sessions and tech support eliminates the need for these manuals except for reference.

**Recommendation:**

Since our existing web site is a prototype content management system that has a number of problems, and since the designer is no longer interested in providing tech support, this seems like a good move. The DotNetNuke program is presently being used by about 400,000 organizations. The only notable shortcoming is that our photo gallery would be limited to about 2,000 photos. We will continue to use [www.1hss.org](http://www.1hss.org) as our URL.

**Conclusion:**

The proposed website development was approved by the membership, and the initial down payment was authorized to Dennis Anderson, Treasurer. Upon receipt, Connect2Clubs began the new site design, and has completed everything except the administrator training. The following article describes our new web site that should be on line within the first week of September. We will notify all members by E-mail.



## The New Harbor Soaring Society Web Site

HSS is embarking on a new era with our web site. We are extremely pleased to have the help of John and Anel Ryan of Connect2Clubs who have just completed the design of our new web site. A partial page print is shown below, and the site should be on line by early September. Our URL will remain the same ([www.1hss.org](http://www.1hss.org)) and this time the appearance and features are spectacular. As you can tell by the tabs, we will have easily accessible pages similar to the prior site but with much classier presentation. The photo gallery is improved, with titles and more information. A new "Members" tab will allow members (only) to have secure access to club information such as bylaws, AMA club charter, ballots, member surveys and other information not previously available to members, and officers will have a central repository for club documents such as city use permits, insurance confirmations, letter head forms, correspondence, and other information that so often gets lost every time we install new officers.

The site is designed around a Content Management System (CMS) called DotNetNuke, which is an industry standard application program that allows trained club members to perform site content management without having to know formal programming languages like HTML (Hyper Text Mark-up Language). Members are invited to contribute announcements, photos, items for sale, and want ads to the web site through Site Administrators to be announced shortly.

The feature sailplane of our masthead belongs to Larry Westman, from a photo taken at the Fairview slope in 2005. It is a Robbe Modellsport ASW 19 with a 3.13 meter wing span.

## AMA Membership Renewals and Elections Next Month

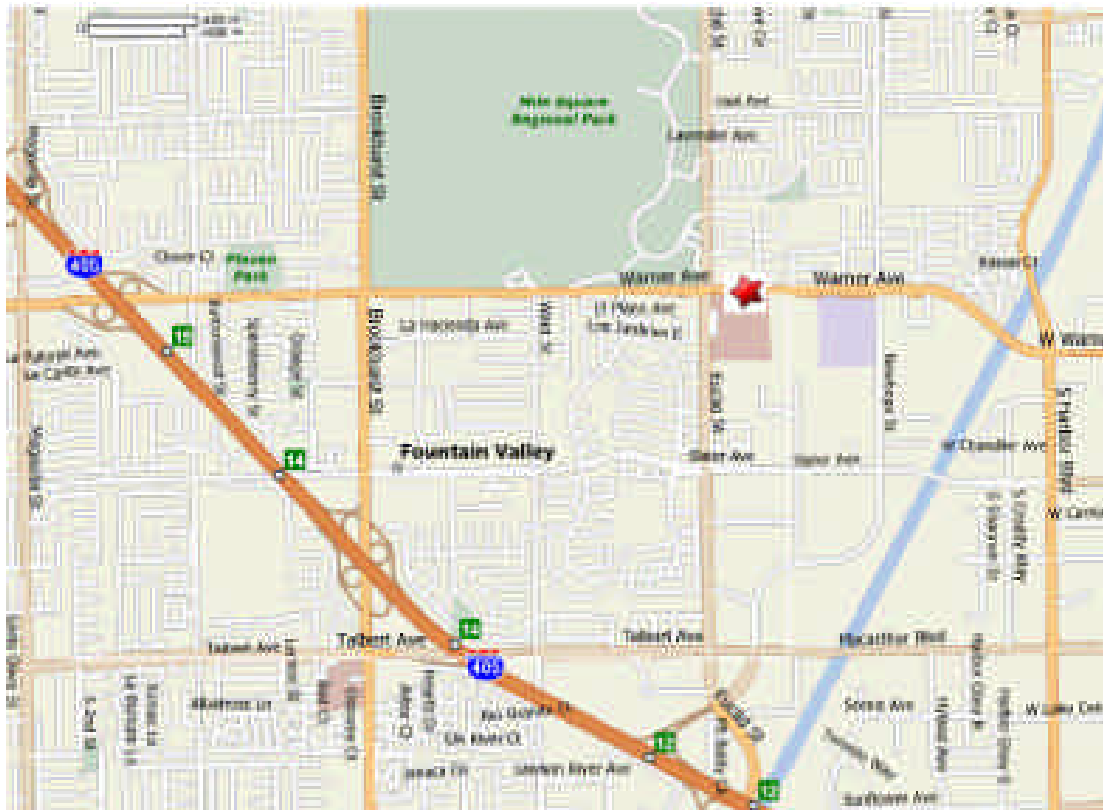
Your annual membership renewal notice for 2011 will be in the mail to you in September. Don't delay in re-upping your AMA membership so that you don't suffer interruptions in your flying privileges, *Model Aviation* delivery, insurance, club roster development and many other important considerations. And don't forget AMA's Sign 3 Fly Free program, which can earn you a free membership!



**7 September 2010 Dinner/Meeting Notice**

The next club meeting is Tuesday September 7<sup>th</sup> at ROUND TABLE PIZZA, 11095 Warner Ave. & Euclid (North-east corner) in Fountain Valley. Phone number is (714) 839-0276. The Family Night rate is all-you can-eat pizza, plus one salad bar, for \$6.99. Seniors qualify for a further discount (That's older folks, not twelfth graders). Fountain drinks are an additional \$1.99, self-service, or \$2.99 per liter. Beer and wine are available. Bring your wife, family, friends, etc. Vice President Chris Adamczyk will complete his demonstration of glassing and vacuum bagging aerodynamic surfaces. We expect to have show and tell as time permits. The meeting will be concluded with a raffle for a TBS. The location is shown in the map below. The executive/steering committee meeting will begin at 6:15 PM.

**Map to September 7<sup>th</sup> Meeting**



**Raffle Prize for September 7<sup>th</sup> Meeting**

The raffle prize for the coming meeting is the foam Tiger Moth shown at right. It is donated by Ted Broberg. Unfortunately Ted reports that there are servos, but no motor, ESC, or receiver. Dennis Anderson is also providing a motor with matching speed control.





**Coming Events For 2010**

Tuesday	Sept 7	HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. at Euclid in Fountain Valley. General meeting at 7 PM. Exec meeting at 6:15. All you can eat \$6.99. Raffle and show and tell.
Fri-Sun	Sept 10-12	Big Jolt West Coast Electric RC Experience. Prado Airpark. Hosted by Pomona Valley Model Aircraft Club. Info at <a href="http://www.pvmac.com">www.pvmac.com</a>
Sunday	Sept 19	Seventh SC2 soaring competition. Hosted by HSS at SWSA Fish Canyon field, Irwindale, CA. See details at <a href="http://www.1hss.org">www.1hss.org</a> and <a href="http://www.silent-wings.org">www.silent-wings.org</a> .
Sat - Sun	Oct 2-3	CVRC Fall Soaring Festival. Hosted by CVRC at Russell Pond, Visalia, CA. See details and map at <a href="http://www.cvrcoaring.com">www.cvrcoaring.com</a> .
Tuesday	Oct 5	HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. at Euclid in Fountain Valley. General meeting at 7 PM. Exec meeting at 6:15. All you can eat \$6.99. Raffle and show and tell.
Sunday	Oct 24	Eighth SC2 soaring competition. Hosted by TPG at Encinitas Flight Center, Encinitas, CA. See details and map at <a href="http://www.torreypinesgulls.org">www.torreypinesgulls.org</a> .
Tuesday (Election Day)	Nov 2?	HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. at Euclid in Fountain Valley. General meeting at 7 PM. Exec meeting at 6:15. All you can eat \$6.99. Raffle and show and tell.
Tuesday	Dec 7	HSS Annual Christmas Party and officer installation. Location to be determined.

**Special Election Notice**

Tuesday November 2<sup>nd</sup> is national election day, and more importantly (just kidding), HSS election day for our 2011 officers. Members will be notified of a change in meeting date in the event that there is too much conflict. Some members may wish to stay at home in order to observe national election results.

**Park Permits Available Now**

Robert Staples has sent us the announcement (below) stating that City Flying Permits are available now for \$20 per year. Remember to bring your new AMA license.

**RENEWAL NOTICE:**

The City of Costa Mesa will be accepting renewals for the 2010 Flying Permits beginning Monday, November 2, 2009, at the following locations:

Costa Mesa City Hall (77 Fair Drive, Costa Mesa 92626) – 3<sup>rd</sup> floor Recreation Counter, during regular business hours from 8:00am – 4:30pm (excluding City observed holidays). Call 714-754-5300 for details.

Temporary permits are issued at the Downtown Recreation Center (1869 Anaheim Avenue, Costa Mesa 92627) between the hours of 10:00am – 1:00pm on Saturdays. For more information, call 714-327-7560.

Thanks for all your help,

**Joyce M. Santos** Administrative Secretary

City of Costa Mesa - Recreation Division  
77 Fair Drive, Costa Mesa 92626  
Phone: 714-754-5009 Fax: 714-754-5166

Note that to fly at Fairview Park you need the above permit, liability insurance (preferably AMA), and you need to follow City of Costa Mesa Ordinance No. 07-01, City Regulations for Issuance, Suspension and Revocation of Permits to Fly at Fairview Park, Academy of Model Aeronautics Safety Code, and the Fairview Park Flying Field Rules which are posted at Fairview Park. You do not need to be a Harbor Soaring Society member.



**New Low Cost 2.4 GHz Receiver**

Hobbyking is introducing an aftermarket 2.4 GHz receiver produced by Orange Rx that is compatible with the Futaba Fasst series of transmitters. Hobbyking is accepting preorders now. Request Product ID ORNG8F, as shown below. It is expected to be available in mid-September. Check hobbyking.com .

The OrangeRx 8ch receiver is only 9.7g in weight and 30x45x10mm in size. Great for small planes, helis, parkflyers or even medium sized sport planes. The price is \$29.99 which is less than half of the Futaba receiver. All OrangeRx receivers come with a 12 month warranty. Compatible with Futaba FASST receivers: TM7, TM8, TM10, TM14 + more.

NOTE\* This is not a Futaba receiver, nor is it a copy of a Futaba Receiver. Futaba and FASST are trademarks of Futaba.

**Key features.**

Light weight: 9.7g

Compatible with FASST aircraft radio and module systems

8 Channels

Compact design: 30x45x10mm

Twin antenna for diversity and long range.

Input voltage: 4~9.8V

Specified Range: 1.5km+

Resolution: 3072

Latency: 22ms

**Coming Event for Big Planes**

Our President Henry Smith, received this interesting announcement that might be a fun activity for us all. AOPA is the national organization of Aircraft Owners and Pilots Association.

**From:** "Kraus, Susan" <[Susan.Kraus@aopa.org](mailto:Susan.Kraus@aopa.org)>

**Date:** August 10, 2010 3:13:13 PM PDT

**To:** <[henry.smith.3@earthlink.net](mailto:henry.smith.3@earthlink.net)>

**Subject:** AOPA Aviation Summit

Hello

I am in the process of contacting aviation-related organizations that are in California to make sure that you are aware that AOPA is holding its annual show in Long Beach this year - November 11-13.

In addition to the 500 booth exhibit hall, forums, AOPA Live and social events centered around downtown Long Beach at the convention center, we will hold a totally free of charge "Airportfest", located on the grounds of the Long Beach Airport.

You may view many of the videos online at [www.aopa.org/summit](http://www.aopa.org/summit).

Please contact me if you have any interest in holding any of your meetings during the time of our show. We offer complimentary meeting space to aviation groups and also publish your meeting information on our website and in our program guide onsite.

Thank you very much.

Best regards, *Susan Kraus* Program Manager – Outreach -

Aircraft Owners & Pilots Association (AOPA)

301-695-2050, 301-695-2313 fax, [susan.kraus@aopa.org](mailto:susan.kraus@aopa.org)

**AOPA Summit - Long Beach, CA November 11 - 13** [www.aopa.org/summit](http://www.aopa.org/summit)



**AMA Personalized Numbers**

Here is an interesting service available from AMA.

**Alphanumeric (Custom) AMA Numbers**  
 Now available on first come, first serve basis  
 Complete this order form, listing up to three choices, and send with your check or credit card information for a fee of \$50.  
**DO NOT** include payment for any other transaction!  
 If the new number you request is not available, your application and payment in full will be returned to you.

**Restrictions:**  
 Each and every membership number must be unique. No duplicates will be allowed.  
 Only Life Members may use an all numeric preceded by an L.  
 Character sets which are obscene or suggestive, in any language, will not be allowed.  
 Alpha numeric combinations are limited to a maximum of eight characters. This includes all upper case letters of the alphabet, numbers 0 thru 9, and symbols - + & / only. No spaces will be allowed.

When putting numbers on aircraft equipment, spaces may be inserted between character sets. For example, the custom membership number IFLYRC may be applied to a model wing as I FLY RC.

**Mail order form below to:**  
**Academy of Model Aeronautics**  
 5161 E Memorial Dr  
 Muncie IN 47302

**Order Form**

Alphanumeric (Custom) AMA Numbers

First Name	Last Name	
Street Address		
City	State	Zip
Present AMA#	Expiration date	

Choice 1 \_\_\_\_\_

Choice 2 \_\_\_\_\_

Choice 3 \_\_\_\_\_

VISA     
  MasterCard     
  \$50.00

Exp. Date \_\_\_ / \_\_\_ / \_\_\_       Check Enclosed

Note: If choice or choices are not available, entire request will be returned to you.

\_\_\_\_\_  
 Cardholder's signature

You may fax this application to: (765) 741-0057, or mail to:  
 Academy of Model Aeronautics • 5161 East memorial Drive, Muncie IN 47302





Plane of the Month

Ralph Ranalli has been flying a high resolution aerial camera on his (TBS) pusher plane for several months. Rob Askegaard obtained the following photos of Ralph, his plane and his ground station.

Ralph provided the following descriptions, and the neat aerial photo of the park and another plane:

The Plane: Hobby Zone "Aerobird Xtreme"(2004) was modified by removing a 12 oz. 6 cell 2800 mah Ni-MH battery and replacing with two 2s1p7.4 1900 mah li-poly packs in parallel saving 6 oz. and considerable volume.

The Camera: AIPTEK "Action HD" 1080/720 hand held HD video and still camera weighing 7oz.fits in the space where the Ni-MH battery was, with the lens seeing just over the cockpit front wall, and held in by four rubber bands firmly holding down the canopy on top of the camera.

The Operation: Just before camera insertion, camera power is applied. Recording is started just before takeoff. Removable flash chips store the 720 p 60 fps HD video. ARCSOFT software supplied with the camera is used to view the file on the computer and at any point a frozen frame can be selected to produce a 2.6 mbit .bmp image file. A 10 minute flight could produce 36000 .bmp frozen images. In practice the fine selection can be used to pick the best image considering image framing, horizontal wing placement, any pitch considerations etc.

The Flight: At 43 oz. total weight, and perfect balance, flying and power off gliding is stable and predictable. No extra frontal area drag is presented and gliding with power off produces a "whistling" through the air recorded in stereo. Athletic field takeoffs and landings allow HD video of the surroundings of any "park" site, especially useful for school building site documentation. Thanks to both Ralph and Rob for the contributions. - ed.





**Another Plane of the Month**

Rob Askegaard is at work with more great photos and his report, as follows.

“Here are some pictures taken today (August 21) of a very beautiful Twin Otter ARF model by Hangar 9 and built by Charlie Hynes. It has an 82" wingspan and is powered by two E-flite 25 motors and 40 amp ESCs. It uses 3 cell 3200 ma LiPos. It has performed 50 flights so far with many touch and go's. The flaps are very effective and the plane flies beautifully.” Thanks, Rob. – ed.



Seen about the Field

Our club photographer Rob Askegaard brings us John Bradford, holding his Kyoto Spitfire. It has a 56" s[am, uses a Scorpion 4020/12 motor, and the weight is 7 lb. Very fast and powerful.



On the 4<sup>th</sup> of August, Rob captured a recent club activity that is gaining popularity. You can see why. Rob Askegaard's photo shows members attending one of the HSS special meetings (that's the Harbor Saucier Society). Rob's report goes as follows:

"Here is a fun time early in the morning when we had a surprise breakfast out at the old flying field. The head chef was Dave Maze and assisting was "Sheriff John". Also assisting was Ted Broberg with the watermelon. Dave adds his 'secret' ingredient (Milk Bone) for some added flavor. Everything was provided - breakfast burritos, sausage, orange juice, watermelon and utensils. What nice guys."





Seen Around the Field (continued)

On the right, Ted Broberg has kindly provided a delightful photo of Chris Adamczyk and his 7 year old nephew Hudson. They are shown with Chris's Charm sailplane.

Rob Askegaard sent a couple more pictures taken recently. Below, is Jeff Hill showing the small Fokker D VII and Albatross. The planes are both ARFs and Jeff made them look very realistic by doing show special detailing that enhanced them.

At the bottom is Kenny Blasius with his Polish "Wilga" which was scratch built with a fiberglass fuselage and foam and balsa-covered wing - very clever and nicely built plane.



**Seen Around the SWSA Field**

Your editor shares newsletters with a number of Southern California model clubs, and thus we get lots of up to date local information on events and activities. Since the soaring fraternity within HSS is a little reluctant to provide photos of beautiful gliders, a particularly striking photo was lifted from the Silent Wings Soaring Association (SWSA) newsletter called "Pop Off". This appears to be about the biggest unlimited thermal duration sailplane around, and Major Anderson seems quite proud. Thanks to Enrique Arance, the Pop Off editor.



**Major Anderson showing off his splendid Xplorer 4000**

**4000 means 4 meters, that's 157 and a half inches, folks!**

**The comparison with the standard Xplorer shows the substantial increase in aspect ratio.**





**HSS Donation to a Community Cause**

The executive council elected to make a \$250 donation to support the doggy bag distribution stations in Fairview Park. We have received the following thank you letter from the Costa Mesa Community Foundation.

Costa Mesa



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Foundation

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501(c)(3)

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Costa Mesa

CA 92627

Tel: (714) 754-4950

www.cm-fund.org

June 24, 2010

Harbor Soaring Society  
P.O. Box 1673  
Costa Mesa, CA 92628

SUBJECT: Contribution to the Costa Mesa Community Foundation

Dear Harbor Soaring Society:

On behalf of the Costa Mesa Community Foundation, thank you for your generous donation of \$250.00. Your donation will be used specifically for the K9 Cleanup Program. Our mission is transforming donations into dreams! Our non-profit corporation is committed to mobilizing resources, such as yours, to enrich our community.

The Costa Mesa Community Foundation is authorized by the Secretary of State (Tax ID #31-1663803) as a non-profit foundation and is tax exempt under both State and Federal law, so your donation may be tax deductible. It is recommended that you save this written acknowledgement together with your cancelled check to review with your accountant.

Thank you again for your contribution to the Costa Mesa Community Foundation.

Sincerely,

Gary W. Craig  
Treasurer

/lmj:ku

Coming Events in Southern California

# There's a Storm Brewin'



## September 10-12, 2010

### Prado Airpark ★ Chino, CA

Open to all Electric Aircraft & EDF Jets

- ★ Premier Flying Site in Southern California
- ★ Beautiful 800 x 50 ft. Paved Runway, with large unobstructed over-fly
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- ★ Hangar BBQ Saturday night
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- ★ Night Flying

An AMA Sanctioned Event Hosted by The Pomona Valley Model Airplane Club (PVMAC)  
 For details, advance registration, hotels/motels, directions & pilot/vendor information, please visit:

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

co Sam Wright sam-w@cox.net / Phil Goodwine phil@goodwineglass.com



# WWII Warbirds Over Gilman Springs



**WHERE:** Killeen Field, Gilman Springs Rd. Moreno Valley, CA.

**WHEN :** Saturday - September 18, 2010 - 8am to 3pm.

**FEE:** Landing Fee - \$20 (Includes Lunch). **NOTE:** Must show current AMA Card.

**ACTIVITIES:** Open Flying (WWII War Birds Only), Awards, Raffle.

**AWARDS:** 1st, 2nd, 3rd - for over 60 size, 60 & under size, and Electric any size.

Also, Award for "Pilots Choice" and Award for "Peoples Choice".

(Model must be flown to be eligible for an Award).

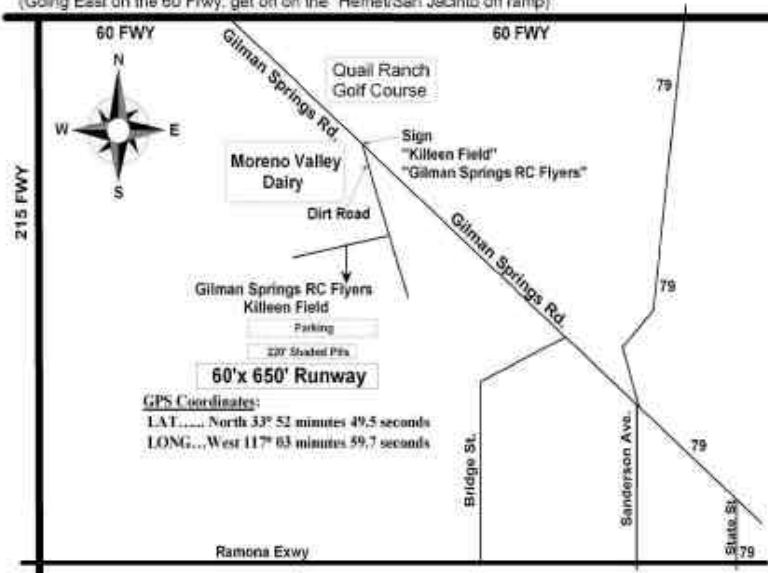
**FOOD CONCESSION:**



(Going East on the 60 Fwy, get off on the "Hemat/San Jacinto off ramp")

Dust off your WWII Model and show it off at this Fly-In.

Enjoy our Paved Runway & Shaded Pits. You'll love it!!!



**\*Open To All\* \*Spectators Welcome\* \*RVs Welcome\***



For information, contact Mike Stone at (951) 845- 7039



# Volts over the Victor Valley 1st Annual Electric Fest.

- Electrics only
- AMA Sanctioned
- \$25 landing fee, includes lunch
- Foamy Death Match
- Night Flying
- Foamy Figure 8
- Foamy Obstacle course

Everyone is welcome at our First Annual Volts Over the Victor Valley Electric Fest. Pilots, spectators, and vendors. Come out and enjoy three days of flying, foamy fun, food and meet new friends. There is nothing like flying in the High Desert in the fall, perfect weather. Fly whatever you want as long as it's electric.

- Full RV hook ups at Hesperia Lake
- On site dry camping
- Food
- Drinks
- Awards
- Raffle Prizes
- Charging Stations Available
- Saturday Night Dinner
- Elec. Sail Planes Welcome

## Victor Valley RC Flyers

The field address is 7000 Arrowhead Lake Rd, Hesperia, Ca 92345. Exit the 15 freeway at Main St. Hesperia and go east 9.5 miles. Main St. will turn right and become Arrowhead Lake Rd. Continue on, pass Hesperia Lake for half mile to the gate entrance.

**Mike Stroup, 1 (760) 964-7259**  
**Barry Young, 1 (760) 985-4577**  
**Date: 8,9,10 October 2010**

Email [VP@vvrcf.org](mailto:VP@vvrcf.org)  
for preregistration





**Plane Rap Classified Ads and Services - For Sale**

This area of the newsletter is free to club members to sell planes, related equipment, and services. Contact Fred Hesse at [fhesse@socal.rr.com](mailto:fhesse@socal.rr.com) with any material that you wish to insert here.

- **Precision machining** - Tim Beegan, HSS Member: Do you have a need for machine work? I can do small parts for R/C planes. Call me at (949) 646-6285 or see me at the field for consulting.
- **Custom laser cutting services** are now provided by GDH Planes, in addition to manufacturing kits. With the currently weak Canadian dollar (we are a Canadian company), it is a great time to use our services and take advantage of the exchange rates, adding to our already reasonable rates (US\$1 is currently equal to about \$1.157 Canadian). Should any of your members require this service, please have them visit our web site at [www.gdhplanes.com](http://www.gdhplanes.com) or email us at [LaserCutting@gdhconsulting.ca](mailto:LaserCutting@gdhconsulting.ca).

Regards, Glen Harbottle President GDH Consulting Corp. Tel: 905-668-2326 [glenh@gdhconsulting.ca](mailto:glenh@gdhconsulting.ca)

**HSS Sponsors**

The following companies are the proud sponsors of Harbor Soaring Society. They give us special offers, and make contributions to our Adopt-A-School program. In return, please support them, and mention that you saw them advertised in the HSS Plane Rap newsletter.

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474502	94802 Sub-Micro Digital BB Servo	36.99	29.99	7.00
474551	94851 Digital Hi-Power BB MG Servo	55.99	45.99	10.00

**BH Models**

159558	J-3 Cub 120 ARF (20-23cc Gas)	399.99	299.99	100.00
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703894	ElectroStik EP 50" ARF	114.99	99.99	15.00
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210851	XL 52 RFS Blue R/C 4-Stroke Engine	159.99	129.99	30.00
210868	XL 91 RFS Blue R/C 4-Stroke Engine	199.99	169.99	30.00

**Phase 3**

107311	EF-16 EDF Foam Kit - No Motor/Fan/ESC	59.99	43.99	16.00
107318	P-40 EP w/Retracts & Brushless System RR	189.99	159.99	30.00

**Global ARF by VQ**

159867	Stick 46/EP Sport w/Battery Hatch	119.99	99.99	20.00
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See our web site at [www.1hss.org](http://www.1hss.org), and our photo site at <http://picasaweb.google.com/rc.goat> .

**NEXT CLUB MEETING WILL BE:**

**TUESDAY SEPTEMBER 7TH, 2010, AT ROUND TABLE PIZZA, 11075 WARNER AVE. FOUNTAIN VALLEY. 7 – 9 PM. ALL YOU CAN EAT \$6.99.**

**BRING YOUR WIFE, FAMILY, AND FRIENDS FOR DINNER. VICE PRESIDENT CHRIS ADAMCZYK WILL DEMONSTRATE GLASSING AND VACUUM BAGGING. THERE WILL BE A SPECTACULAR RAFFLE, AND SHOW AND TELL. SEE DETAILS AND MAP TO LOCATION ON PAGE 4. SEE THE COLOR NEWSLETTER SENT BY E-MAIL AND AVAILABLE ON OUR WEB SITE.**

Harbor Soaring Society  
P.O. Box 1673  
Costa Mesa, CA 92626

