



HSS PLANE RAP NEWSLETTER

HSS is the oldest AMA chartered R/C Soaring Club in the USA. Founded 1964
 Silver Leader Club since 2009, Gold Leader Club 2011-2013, 2015.

September 2015

HSS IS NOW OVER 50 YEARS OLD!

Volume 52

Come hear the fascinating report by the Cal State Fullerton Titan team about their successful intercollegiate competition with autonomous model aircraft. This will be featured at our meeting on Tuesday September 1.

Plane Rap Index

Check out the following articles:

- Aug. 4 General Meeting Minutes. P.2-3.
- HSS Has a New Friend. P.3.
- HSS Membership. P.3.
- Message from AMA District X Pres. P.4.
- Annual Pumpkin Festival. P.4.
- Student Training. P.5.
- Recent FAA Bulletin. P.6.
- Unexplained Loss of Control. P.7.
- Seen Around the Field. P.8-10.
- HSS on YouTube. P.11.
- Printed Mini-jet Engine P.11.
- SC2 2015 Competition Schedule. P.11.
- SC2 Competition Results, July 19. P.12.
- Next Meeting Announcement. P.13.
- Raffle Prizes for Next Meeting. P.14.
- City Flying Permits. P.15.
- Photos of Your Planes. P.15.
- Classified Ads & Sponsors. P.16-17, 19.
- HSS Membership Application. P.18.

Coming Events and Soaring Competitions

September – November 2015

- Tuesday Sept 1, 2015. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.13 for details.
- Sunday September 20, 2015. SULA hosts ninth SC-2 event. Held at Field of Dreams, San Pedro. See P.11 for details, or www.sulaclub.org.
- Tuesday October 6, 2015. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.13 for details.
- Saturday and Sunday October 17-18, 2015. Costa Mesa Scarecrow Pumpkin Festival at Fairview Park. See details on page 4.
- Sunday October 18, 2015. Tenth SC2 competition hosted by TPG. Held at their glider field in Encinitas. See P.11 or www.torreypinesgulls.org.
- Tuesday November 3, 2015. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.13 for details.



August 4, 2015 General Meeting Minutes

Called to order at 7:08 P.M. by President Henry Smith III. Also in attendance were General Director John Anderson; Club photographer Rob Askegaard; John Rittenhouse, Charles and Ralph Siegfried, Bob Voss, Dick Baxter, Roger Nahas, Gary Baldwin, Jesse Calleros, and visitors Bruce Gale and Anthony Mitchell.

I. New business

A. Unexplained crashes at Fairview Park: Gary Gulllickson brought this to Henry's attention. Henry has started some research on this topic. He'd like to gather data on any cases of this.

- Can someone make a high-powered signal monitor to keep track of episodes? He showed a chart that he'd like to have fliers at the field fill in. Locations are to be noted on a map of the Park area, to have a circled numeral to match the next entry to the log. Henry will ask David Miller to put this on the web for the club, to inform all who read it.
- John A.: He checked R/C groups for suggestions.
- Jesse: Horizon Hobby has good information. He'll send a link if he can.
- Henry suggests doing a thorough range test, with the plane in various positions from the transmitter. Also, telemetry will keep track of fades and holds. He suggests that Easy Connectors vibrate and loosen and cause a crash. Never use them on solid wire. The hard wire loosens set screws.
- John R.: High Voltage power lines could be a source. Antennas should not point towards the plane.
- Henry: Those little data recorders that you plug into a Spektrum when you land are good. Before you shut off the plane or transmitter, plug one in to any slot and read the codes.

B. John A.: Concerts in the Park; good turnout. While there, he spoke with a lady from Fairview Development Center. She'd like to have about six of their clients visit our field to watch flying, use simulators. REFERRED TO STEERING COMMITTEE.

C. Regarding drones, are we communicating with other clubs? Henry thinks we should embrace these people, and show them how to do this safely, fitting in with existing rules.

II. Old Business

A. Field clean-up: Compliments to all who helped!

B. Pumpkin Festival: Oct. 17-18. We're invited again. Henry suggests Vince San Filippo again to work on it, with an astronaut pilot, and a quad-copter. We'll need people to staff our booth and give out Flying Pumpkins and literature.

C. Are we staying in touch with the OCME railroad people?

D. A new group is forming to save Fairview Park. Some of them would like to turn the fliers away. Shall we recruit someone to join this?

E. Drones: Should we work with other local clubs?

F. William Vincent II has a birthday party coming up. (He circulated a card for signatures.)

G. John A. mentioned Kelly's Hobby Shop, Old Town Tustin. Lots of good balsa wood. They're closing at the end of August. Might have good deals.

H. Indoor flying: The Cube has a new large room. Possible site. O C Fair's hangar might let us in from time to time. Blimp hangar: Henry expects progress will be slow.

I. We need more help from more people. Watch for email blasts.

J. Send any of your news to Henry in copy-ready form.



Augst 4, 2015 General Meeting Minutes (Continued)**III. Raffle:**

<u>WINNER</u>	<u>PRIZE</u>	<u>DONOR</u>
1. GARY BALDWIN	FOAM-SAFE CA GLUE	HOBBY PEOPLE F.V.
2. TED BROBERG	SERVO CHECKER	HOBBY PEOPLE F.V.
3. DICK BAXTER	PAIR OF SMALL SERVOS	HOBBY PEOPLE F.V.
4. BRUCE GALE	SKYBLAZERS F-86	?
5. SID HOOD	ROBART INCIDENCE MTR	CARRITHERS ESTATE
6. ANTHONY MITCHELL	GUILLOWS F6F MODEL	CARRITHERS ESTATE
7. CHARLIE SIEGFRIED	A/C ADAPTER	RAMSAY ESTATE

Meeting adjourned at 8:17 p.m.— Respectfully submitted, Ted Broberg, Secretary

HSS has a New Friend

A very excellent article about Harbor Soaring Society was recently published on line at the I Heart (Love) Costa Mesa web site. Complete address shown below.

This article is written by Erin Huffstutter who goes by the moniker of "Mesa Maven". It is rare that HSS gets positive publicity, and this feature is over the top. Erin writes a very warm and sensitive description of our club and activities, and laces this article with great photos. The main article can be viewed at <http://iheartcostamesa.com/featured/rc-planes/> , and a separate photo gallery of additional pictures can be found at <http://iheartcostamesa.com/gallery/rc-planes-photos/> . Erin has written a very upbeat description of Fairview Park and our involvement with it. This is definitely worth following the links.

Thanks a lot Erin, we really appreciate your support. - Ed.

HSS Membership

Our 2015 HSS membership enrollment season is in full swing. Note that the new membership rate of \$25 per year is now in effect. A membership application is included in the last pages of this newsletter. These can be mailed to our post office box shown on the last page, or given to a club officer. Alternately, HSS and AMA membership applications can be obtained from any club officer, or available on our club web site at www.harborsoaringsociety.org. Note that both HSS and AMA memberships initiated between November 1st and December 31st are good for the last two months of 2015 and all of 2016. 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 , download document No. 902 from the publications page. Or you can apply on line. If you renew your AMA membership online, be sure to print the receipt that they provide as proof that you joined. And, don't forget your City of Costa Mesa Flying Permit. Details are shown on page 15 of this newsletter.

In the spirit of Political Correctness, please try to adjust your flying field commentary....
Example: "Neal's plane is not Ugly.... it is aesthetically challenged".



Message From Our AMA District X Vice President

You may have read this message from Larry Tougas, our AMA District X Vice President, already. However, the topic of commercial membership in the AMA is of special concern, and has not received a lot of publicity. Because of this, your editor is duplicating Larry's message below.

Dear Friends,

It has been my honor to serve as your District Vice President for the last five years. I have enjoyed meeting the many diverse, committed and friendly modelers from District X; and with your vote I look forward to continuing to serve you.

I am proud to have reinvigorated our District website, and will continue to use the power of new media to bring you news from the local and national level. We will continue to use the district website to offer extra coverage of events that the District magazine column cannot accommodate.

There are troubling issues facing the AMA. The FAA continues to come up with misguided, "one size fits all" restrictions that threaten the sport we love so much. The FAA's tactics are not new to me; I have spent 24 years working as an Engineer with a major U.S. airline and have dealt with the FAA for decades. I will continue to fight on your behalf to ensure that the membership is free to pursue our sport in the way they have always enjoyed. With your help we will beat this thing.

In July 2014 there was a motion made at the Executive Council meeting to commit \$250,000 to develop a new type of AMA membership. One for commercial modeling, it was called the small UAS program. I voted NO on this motion because the two things that define the AMA quickly and easily to an elected official are that, 1) we fly within line of sight, and 2) we don't charge money for flying. For the first time in my service as your District Vice President the Executive Council cast a tie vote. The result was 6 in favor of the motion and 6 opposed. The AMA President broke the 6-6 tie in favor of the program. I viewed this as a tough loss, but it reflects my commitment to push back when I think it is in your best interest. With your vote I will continue to fight on your behalf.

Please do not mistake my opposition to the small UAS program to be one against multi-rotor modelers, modelers who use first person view equipment, or those who use advanced flight systems. I believe that those members who enjoy these new and developing areas of our hobby and do it in accordance with the AMA Safety Code are a welcome addition to our ranks.

As has been the case throughout my term, my top priority will remain traveling the District and visiting as many of our 283 clubs as possible to understand how I can support you. Vote for me and I will continue to speak up and protect your rights as a modeler.

Please follow my campaign at, <http://ama-district-x-election.blogspot.com/>

Sincerely,

Lawrence

AMA District X Vice President

Tougas

P.S. On average only 1 in 5 AMA members vote in our elections. Please make sure your voice is heard. Cast your vote and elect Lawrence Tougas for District X Vice President.

Annual Pumpkin Festival

The Annual Costa Mesa Scarecrow Pumpkin Festival will occur on Saturday and Sunday October 17-18 at the Orange County Model Engineers facility. HSS will contribute a scarecrow, and hopefully will have a small booth or display. Last year we won first place with our glider launching scarecrow. This year we need some imaginative members to work on our entry which will likely involve an astronaut and a quad copter, and man the booth. Contact Henry Smith or John Anderson if you can help with the scarecrow, or manage the booth. Plans are for tacos, hot dogs, and hamburgers.



Student Training

Ted Broberg, our club secretary and flight instructor, is our very best ambassador to the public. Ted puts in three to five mornings a week at the flying field, and does more than anyone else in the club to spread the fun of model aviation. Fortunately, Ted provides some description and photos so we can maintain a running history of his efforts which are so instrumental to our club maintaining its Gold Leader Club status. Below are three of his most recent students.

In Ted's words:

"This young lady (shown at right) rode up on a shiny new beach cruiser bicycle, and was admiring the planes on the ground. Ricardo stepped over and spoke with her, talked a bit, took her picture with her own cell phone, and left. I strolled over and asked her if she'd like an intro lesson in R/C flying. She did. Very enthusiastically. We did two six-minute flights with the APPRENTICE, and she went away delighted. Her name is Tilda. Here's the one photo I got after her flight."



Again, in Ted's words:

"Here's a snapshot (below) of PATRICK DOW, new 12-year old young man whom Henry and I started teaching a few weeks ago. He's progressing SUPER FAST! He now is able to solo anything we have, and flies his own MOSQUITO by himself, with Henry just standing by and cheering. Bright, courteous, capable! Let's get more of these.! Ted B.

Below right, is first timer Joe Austin.



Again, Thanks Ted for your great efforts. - Ed.



Recent FAA Bulletin

This FAA bulletin appears to state the FAA position on model aircraft. Read and heed.

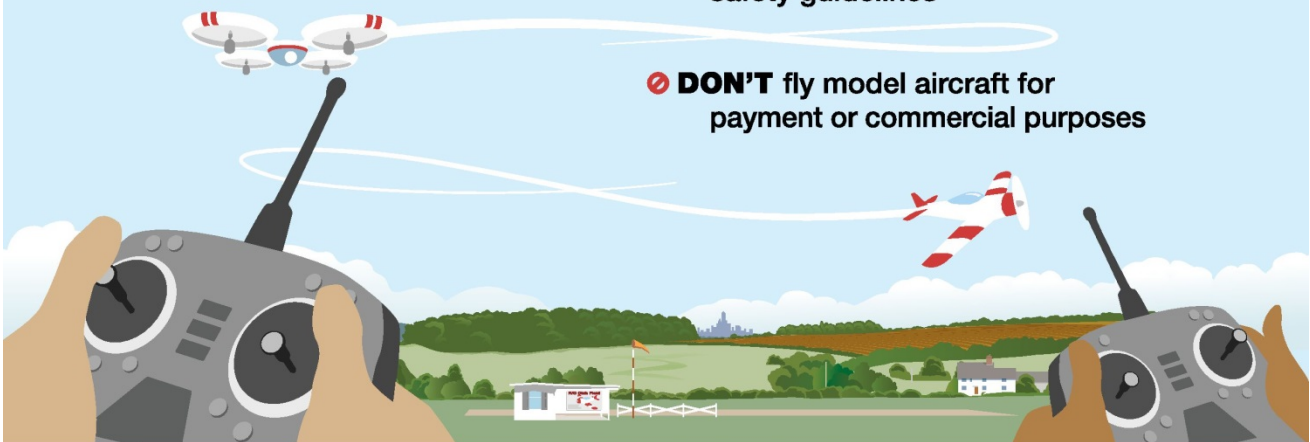
Hobby / Recreational Flying

What Can I Do With My Model Aircraft?

Having fun means flying safely! Hobby or recreational flying doesn't require FAA approval but you must follow safety guidelines. Any other use requires FAA authorization.

AVOID DOING ANYTHING HAZARDOUS TO OTHER AIRPLANES OR PEOPLE AND PROPERTY ON THE GROUND

- ✓ **DO** fly a model aircraft/UAS at the local model aircraft club
- ✓ **DO** take lessons and learn to fly safely
- ✓ **DO** contact the airport or control tower when flying within 5 miles of the airport
- ✓ **DO** fly a model aircraft for personal enjoyment
- ✗ **DON'T** fly near manned aircraft
- ✗ **DON'T** fly beyond line of sight of the operator
- ✗ **DON'T** fly an aircraft weighing more than 55 lbs unless it's certified by an aeromodeling community-based organization
- ✗ **DON'T** fly contrary to your aeromodeling community-based safety guidelines
- ✗ **DON'T** fly model aircraft for payment or commercial purposes



For more information about safety training and guidelines, visit www.knowbeforeyoufly.org

For more information, visit
www.faa.gov/uas



**Federal Aviation
Administration**

FAA022-LTR-1229

Unexplained Loss of Control in Fairview Park

The club leadership has recently received comments concerning unexplained loss of control in Fairview Park. These remarks center on 2.4 GHz equipment from various manufactures. This topic was discussed at the August meeting. We have started to collect data on the time, location and equipment involved with these incidents. If anyone has an unexplained loss of control problem please report to Henry Smith or Ted Broberg.

The following guidelines about receiver installation are found on the Spektrum website. This would apply to most other 2.4 GHz. equipment.

Receiver Installation in Aircraft In gas and glow aircraft. Install the main receiver using the same method you would use to install a conventional receiver in your aircraft. Typically, wrap the main receiver in protective foam and fasten it in place using rubber bands or hook and loop straps. Alternately, in electric airplanes or helicopters, it's acceptable to use thick double-sided foam tape to fasten the main receiver in place. Mounting this remote receiver in a slightly different location, even just inches away from the primary receivers, gives tremendous improvements in path diversity. Essentially, each receiver sees a different RF environment and this is key to maintaining a solid RF link, even in aircraft that have substantial conductive materials (e.g. larger gas engines, carbon fiber, pipes, etc.), which can weaken the signal. Using servo tape, mount the remote receiver keeping the remote antennas at least 2 inches away from the primary antennas. Ideally, the antennas will be oriented perpendicularly to each other. In airplanes, we've found it best to mount the primary receiver in the center of the fuselage on the servo tray and to mount the remote receiver to the side of the fuselage or in the turtle deck.

Henry Smith goes on to provide further details.

1. You should use newer receivers DS2 or DSMx as these are more immune to interference.
2. ALWAYS range test new installations. This should be done with motor on and off and with model facing various directions. My experience is the worst case is with the motor shaft pointed at the transmitter and the transmitter antenna pointed at the model.
3. I prefer receives with antennas spaced several inches apart. Put one antenna in the front of the model and one near the back. I try to put the rear antenna toward the bottom of the fuselage.
4. On larger models use receivers with at least one remote antenna. The antennas should be spaced to give best results on the range tests. I have found telemetry to be very helpful since this system counts missed data and missed frames. If you have a lot of missed frames or any holds during a flight I recommend moving antennas until the connection is solid and you don't have any holds.

This problem of unexplained crashes began with the following note from Gary Gullickson.

I personally crashed my Stinson Reliant model in a sudden death spiral about one month ago which I thought was possibly due to my flying too slow down-wind but the fact that it did not respond to attempts to pull out made me wonder. I have had a previous sudden loss of control crash with my 1/6 scale Sig Cub some 6 months ago. Bob Goff has had similar unexplained loss of control crashes with his scale models as well as his 3D models. We are all experienced RC'ers and use quality RC gear with switch mode BEC circuits either built into speed controls or add-on devices. In my Cub and Stinson I also use the Hitec recommended Supplemental Power Circuit that provides motor batter power to the Optima receiver alone and separate from BEC power to the servos making receiver brownout impossible in theory.

It would be interesting to poll HSS members to find out how many have had suspected loss of control crashes from other than pilot error, brownouts, esc problems, servo or other RC system failures. The crashes I have experienced have occurred at the right end of the field about 200 feet out in line with the rest room and further out away from the rest room, approximate time between 10 AM and noon. As I remember, Bob Goff's crashes occurred around the same place and time.

If you are having a similar problem, contact Ted Broberg. He has a crash report form, and is compiling the data. Also, here is an RC Groups forum: <http://www.rcgroups.com/forums/showthread.php?t=2469155>.



Seen Around the Field

This month we start out with Gene Favilla, at right, holding his home made foam "Snowy Owl". And yes, it flew very well. Below left, Gene is holding his Northrop Gamma "Texaco Sky Chief". Gene has obviously been pretty busy in the shop.

Below right is Kevin Cook with a light weight old timer (New Timer?).

At bottom is a great photo of Jerry Smith's 56" span foam Me-109G. This plane is very nicely detailed, and flies well.

Thanks so much to our club photographer Rob Askegaard for some beautiful photos and text, here and pages to follow. - Ed.



Seen Around the Field (Continued)

At right is a huge scale Buhl Pup owned and flown by Jeff Denham. Walt Cloer was former owner. It looks great and flies great.

Below and bottom left is a beautiful Beechcraft Baron 60 from "Fly-Fly". Owned by Jerry Smith.

Below right is Henry Smith IV and V getting ready for a flight.

Bottom right is Fabian Georges Dynam Cirrus SR-22.

More thanks to Rob Askegaard.
- Ed.



Seen Around the Field (Continued)

At right and right below is a very nice scale foam P-39Q Airacobra racing conversion from 1946 Thompson Trophy Air Races. Unfortunately, owner is unknown. We will find out who to blame.

Below is Bruce and son, Ayden, with our flight instructor Ted Broberg..

Bottom left is Yuliy Lieb and his grandson, Kirill Mragkov, who is 15 years old. They both have E-Flite Horizon P-51s.

Bottom right is Jerry Smith's "The Beast" a 56" span stunt biplane.

Final thanks to Rob Askegaard.



HSS on YouTube

One of our members, Bruce Guberman, walked up with a video camera one day, and asked if he could shoot an impromptu interview. He thought this would be good PR for the Harbor Soaring Society and Fairview Park. He has placed the video on YouTube, and is offering it for our website. This is a great video and features Ted Broberg and a student pilot. The link is shown below.

The student pilot is Jethro Oxford-Pope, son of Catherina and Steve, whom some of you have met at the field or at one or another City meetings.

<http://www.youtube.com/watch?v=LwqKRmRvPI4&list=UUaY3bPauTVz646zkhEStBug>

Thanks to Ted and Bruce for making us famous! It's a very good video. - Ed.

HSS on Facebook

Our new Social Media Manager, David Miller, sent out the following announcement.

I wanted to announce our Facebook page has been launched. The address is www.facebook.com/harborsoaringsociety. If you are on Facebook, please join and share our site/page.

A project we should work on is a Press Release. I would like to develop a press release to announce our new website and new Facebook page. I would like to send this to the AMA marketing department for assistance announcing our great move forward.

Printed Mini-jet Engine

Jim Sonnenmeier has provided the following link to video and text on a small jet engine fabricated by 3-D printing. This is a good article, and the video clip is excellent. Thanks, Jim. - Ed.

<http://www.gereports.com/post/118394013625/these-engineers-3d-printed-a-mini-jet-engine-then>

SC2 Competition Schedule for 2015

Soaring Clubs of Southern California (SC2) posted the 2015 competition schedule at <http://sc2soaring.com>. All dates are on a Sunday. Be sure to reconfirm the following events at the SC2 web site or the club web sites.

- Jan. 25. Hosted by Downey Soar Heads (DSH) at SULA Field of Dreams, San Pedro.. [www.\(TBS\).org](http://www.(TBS).org) .
- Feb. 15. Hosted by Silent Wings Soaring Association (SWSA) Azusa/Covina. www.silent-wings.org .
- Mar. 22. Hosted: Soaring Union of Los Angeles (SULA) at Field of Dreams, San Pedro. www.sulaclub.org
- April 26. Hosted by Silent Wings Soaring Association (SWSA) Azusa/Covina. www.silent-wings.org .
- May 17. Hosted by Victor Valley RC Flyers (VVRFCF). Victor Valley RC Park, Hesperia. www.vvrcef.org .
- June 28. Hosted by Harbor Soaring Society (HSS), Fairview Park, Costa Mesa. www.1hss.org .
- July 19. Hosted by Inland Soaring Society (ISS), Riverside. www.glideiss.us .
- Aug. 23. Hosted by Thousand Oaks Soaring Society (TOSS), Thousand Oaks. www.toss.freesevers.com
- Sept. 20. Hosted: Soaring Union of Los Angeles (SULA) at Field of Dreams, San Pedro. www.sulaclub.org
- Oct. 18. Hosted by Torrey Pines Gulls (TPG), Glider field at Encinitas. www.torreypinesgulls.org .
- Nov. 15. Rain date,
- Dec. 13. Special Toys For Tots competition at SULA, San Pedro. www.sulaclub.org .



SC-2 Competition Results for July 19, 2015

The results for the seventh SC-2 competition held Sunday July 19, hosted by Inland Soaring Society are shown below.

SC-2 Contest #7 AB Brown Soccer Complex July 19, 2015				Hosted By ISS Mike Lee, Contest Director Les Ward, Scorekeeper										Contest Entries 35			
Precision Duration Format				Round 1, 5 mins.			Round 2, 10 mins.			Round 3, 10 mins.			Round 4, 10 mins.			SCORES	
Place	Pilot	Club	Class	T1	L1	S1	T2	L2	S2	T3	L3	S3	T4	L4	S4	Total	Norm
1	Garland, Steven	ISS	E	5.00	50	1000.0	10.00	40	990.0	10.01	50	998.4	10.00	50	1000.0	3988.4	1000.0
2	Filice, Gary	TOSS	E	5.00	20	970.0	9.58	50	996.8	10.00	50	1000.0	9.58	40	986.8	3953.7	991.3
3	Khani, Ali	SULA	E	5.00	50	1000.0	10.00	50	1000.0	10.00	0	950.0	9.59	50	998.4	3948.4	990.0
4	Dora, John	ISS	E	5.01	50	996.8	10.02	50	996.8	9.56	50	993.7	9.59	0	948.4	3935.8	986.8
5	Cavazos, Robert	ISS	RES	5.01	10	956.8	9.59	50	998.4	9.59	30	978.4	10.00	50	1000.0	3933.7	986.3
6	Reagan, Mike	TOSS	E	5.00	0	950.0	9.58	50	996.8	9.58	50	996.8	10.01	40	988.4	3932.1	985.9
7	Filice, Gary	TOSS	RES	5.00	20	970.0	9.57	40	985.3	9.59	30	978.4	10.01	50	998.4	3932.1	985.9
8	Le, Tuan	DSH	E	5.01	30	976.8	9.59	30	978.4	10.01	40	988.4	10.02	40	986.8	3930.5	985.5
9	Townsend, Craig	HSS	Int.	4.59	30	976.8	9.58	30	976.8	9.58	40	986.8	9.56	40	983.7	3924.2	983.9
10	Vera, Edgar	SWSA	E	4.56	50	987.3	9.56	40	983.7	9.55	30	972.1	9.59	30	978.4	3921.5	983.2
11	Stewart, Ed	ISS	E	5.04	40	977.3	9.57	10	955.3	9.57	30	975.3	9.57	50	995.3	3903.1	978.6
12	Reagan, Mike	TOSS	RES	4.58	50	993.7	9.59	50	998.4	9.59	0	948.4	10.00	10	960.0	3900.5	978.0
13	Brooks, Tony	SWSA	E	4.32	50	911.3	10.01	50	998.4	9.59	40	988.4	10.03	50	995.3	3893.4	976.2
14	Schaefer, Bruce	HSS	S	5.05	30	964.2	10.03	50	995.3	10.02	10	956.8	10.07	10	948.9	3865.2	969.1
15	Thonet, Andy	SWSA	RES	5.01	0	946.8	9.57	10	955.3	9.56	10	953.7	9.58	30	976.8	3832.6	960.9
16	Lee, Mike	ISS	E	4.58	30	967.3	10.00	50	1000.0	8.38	50	870.2	9.57	40	985.3	3822.8	958.5
17	Ward, Les	ISS	Int.	4.53	50	977.8	9.46	10	937.8	9.44	0	924.7	9.59	0	948.4	3788.8	949.9
18	Bacani, Alvin	ISS	S	4.57	0	940.5	9.58	0	946.8	10.02	0	946.8	10.00	0	950.0	3784.2	948.8
19	Vera, Edgar	SWSA	RES	3.53	40	777.8	9.58	50	996.8	9.54	40	980.5	9.55	50	992.1	3747.3	939.5
20	Swain, John	ISS	S	5.00	0	950.0	10.19	0	919.9	9.44	0	924.7	10.02	0	946.8	3741.4	938.1
21	Skube, Mike	TPG	Int.	4.25	20	859.2	9.57	50	995.3	9.57	0	945.3	9.53	0	938.9	3738.6	937.4
22	Borer, Dan	SWSA	E	5.01	0	946.8	9.59	50	998.4	10.03	30	975.3	7.52	50	797.3	3717.8	932.2
23	Szego, Erv	HSS	Int.	3.47	50	768.8	9.54	40	980.5	9.57	0	945.3	9.56	20	963.7	3658.3	917.2
24	Thonet, Andy	SWSA	E	3.20	50	683.3	9.58	40	986.8	9.58	0	946.8	9.58	0	946.8	3563.8	893.5
25	Throop, Terry	SULA	E	4.58	30	973.7	9.57	40	985.3	10.00	50	1000.0	5.23	20	531.4	3490.3	875.1
26	Cavazos, Kerry	ISS	Int.	5.02	20	963.7	5.23	40	551.4	9.58	40	986.8	9.46	10	937.8	3439.8	862.4
27	Trivitt, Tom	ISS	Int.	4.25	0	839.2	4.02	0	383.2	9.59	50	998.4	9.56	0	943.7	3164.4	793.4
28	Smith, Jim	SWSA	RES	4.42	30	923.0	2.17	0	216.9	10.01	0	948.4	9.57	0	945.3	3033.6	760.6
29	Espolt, Ronnie	VVRC	RES	2.31	0	478.2	10.07	30	968.9	5.33	0	527.3	10.01	0	948.4	2922.8	732.8
30	Schwemmer, Rick	ISR	S	4.54	50	981.0	3.48	30	391.0	9.55	0	942.1	5.02	0	478.2	2792.3	700.1
31	Barr, John	SWSA	S	4.24	0	836.0	9.56	0	943.7	6.01	0	571.6	0.00	0	0.0	2351.3	589.5
32	Bankston, Brian	ISS	S	4.57	0	940.5	10.01	0	948.4	0.00	0	0.0	0.00	0	0.0	1888.9	473.6
33	Jenkins, Harvey	SWSA	Woody	7.06	0	551.0	2.54	0	275.5	1.41	0	159.9	2.23	0	226.4	1212.8	304.1
34	Fox, Mike	HSS	WOODY	2.14	0	424.3	0.00	0	0.0	0.00	0	0.0	0.00	0	0.0	424.3	106.4
35	Whittington, Sylvestra	HSS	WOODY	1.42	0	323.0	0.00	0	0.0	0.00	0	0.0	0.00	0	0.0	323.0	81.0

Errata

In our August 2015 issue of Plane Rap on page 7 was an article titled General Director's Report For Discovery Cube. Unfortunately your editor did not proof read the article with sufficient care, and let the following errors slip through. Apologies.

- Ted's last name is BROBERG, not BroMberg;
- Jethro's brother's name is JERONIMO, not Jerome;
- The control-line group is Knights of the Round CIRCLE, not Table.
- Henry Smith should be Henry Smith III

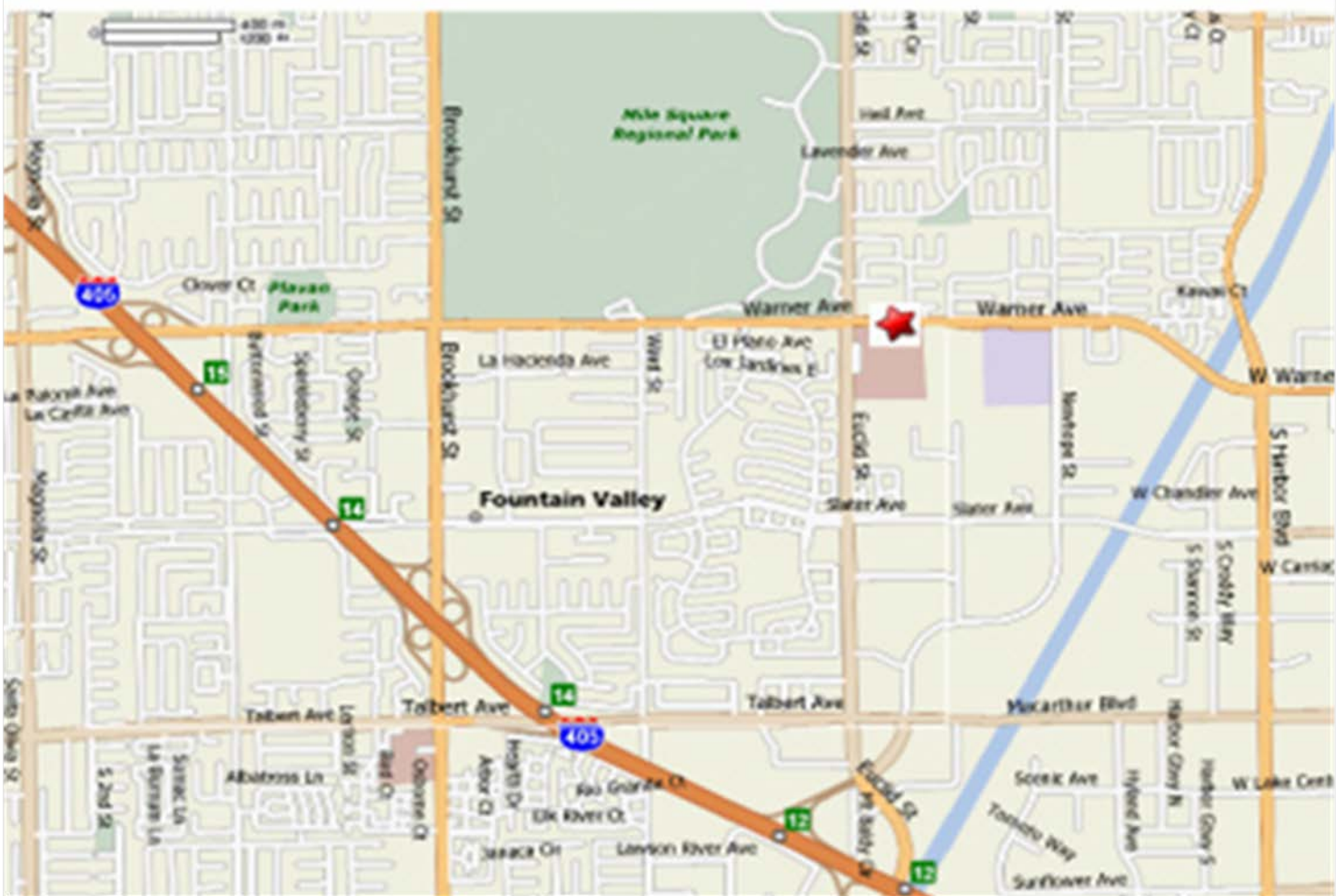
AMA Launches UAS4STEM Program

AMA has launched a new program to encourage teamwork, competition, and success through a science, technology, engineering, and mathematics (STEM)-based education platform. The new UAS4STEM program will provide student teams of four to eight people with training, insurance, licensing, and equipment to compete in search-and-rescue challenges. Kits for the program will be available in the fall of 2015.

General Meeting Announcement For September 1, 2015

Our monthly general meeting is held on each first Tuesday of the month, this time it is September 1, 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. Fountain drinks are an additional \$1.99, self-service, or \$2.99 per liter. Beer and wine are available. Time will be allowed for show-and-tell of your favorite plane. Bring your wife, family, and friends. There will be a raffle, with items listed on the following page. The location is shown below.

Our September meeting will feature the California State University at Fullerton Titan Team as they describe their success in the intercollegiate autonomous UAV competition. The team designed an electric powered plane that flies several missions including autonomous takeoff, waypoint sequence, and search pattern. The competition was held in late June, in Maryland. They won \$1,800 in prize money. Don't miss this presentation.



Some guy bought a new fridge for his house.
To get rid of his old fridge, he put it in his front yard and hung a sign on it saying:
'Free to good home. You want it, you take it.'
For three days the fridge sat there without anyone looking twice.
He eventually decided that people were too mistrustful of this deal.
So he changed the sign to read: 'Fridge for sale \$50.' The next day someone stole it!



Raffle Prizes for September 1st Meeting

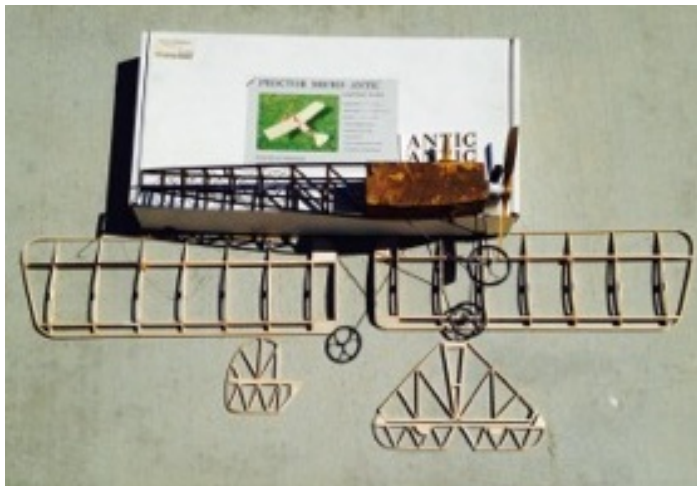
Ted Broberg has some great raffle prizes for the September 1st meeting. Join us as raffle tickets are free, just for attending.



48" span Hobby People "Real Thing" with motor.
Donated by Tom Cody.



Multimeter.
Donated by Ted Broberg.



36.5" span Antic, a Proctor kit.
Donated by Randy Wilbur.



Greet Planes wing-building jig.
Unknown donor.

You know that little filter in your head that
stops you from saying things you shouldn't?
Well...I don't have one of those!



Photos of Your Planes

We are very fortunate to have Rob Askegaard as our club photographer. Rob has a high degree of talent, and supplements that with an excellent camera. His well composed and very realistic photos taken at ground level and his remarkable stop action in-flight pictures are superb. Rob's contributions are what make our newsletter really spectacular. We try to feature everyone and their planes, so if you haven't seen yourself in our newsletter, look for Rob just about any morning and pose for him.

Soon, we will be updating the photos on our web site with those by Rob and also those provided by Ted Broberg who recently acquired an excellent camera. Anyone that wishes a high quality print, or the digital file of their favorite plane should contact Rob, Ted, or your editor. Phone and E-mail are shown on the last page of this newsletter. Web site photos have been compressed to shorten download time, and newsletter photos are cropped, so when you obtain any image, it will be the original full resolution quality.

2015 City Flying Permits Available Now

A permit to fly radio-controlled model aircraft is required to operate model aircraft at Fairview Park. This permit can be obtained by going to www.costmesaca.gov and downloading the file Model Airplane Fly Permit 2014.pdf. You must also show proof of adequate liability insurance in the form of a current Academy of Model Aeronautics (AMA) membership card or a current homeowners/personal liability policy specifically covering model aircraft operation with a minimum limit of \$500,000. Rules and regulations for flying the model aircraft can be found in the City of Costa Mesa Municipal Code, Title 12, Chapter II, Articles 2 & 3.

Permit Fee: \$25 per year. Learner's Permit for youths 6-14 years old - \$15 per year.

WALK-IN Costa Mesa City Hall (77 Fair Drive, Costa Mesa 92626), 3rd Floor Recreation Counter Tuesday through Thursday from 8:00 AM – 4:30 PM (excluding City-observed holidays),

MAIL-IN Mail your renewal packet (see list below), to include full payment, to:

Recreation Division – Fly Permit

City of Costa Mesa, P. O. Box 1200, Costa Mesa, CA 92628

Renewal Packet must include **ALL** of the following:

- Permit Application (filled out and signed).
- Copy of your drivers license.
- Copy of the AMA Membership Card (showing the required year) or homeowner's/personal liability insurance policy (specifically covering model airplane/aircraft flying with a minimum limit of \$500,000).
- Renewal Fee (\$25); payment by Check (payable to City of Costa Mesa) or charge to Credit Card (filled out and signed).

Note: Current permit holders with email addresses on file with the City will receive renewal packet information via email.

If you have questions or need additional information, please call the Recreation Division at (714) 754-5300.

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 rules posted at the flying site.

AMA District X Website

AMA District X Vice President Lawrence Tougas wants to invite AMA members from all districts to enjoy District X's new website. "We have a lot of great articles in our blog, plenty of pictures in our photo albums, and a spot where you can learn more about our associate vice presidents and myself," says Lawrence, District X VP. All of the information is at www.ama10.org. Why not consider helping your district with its website.



Plane Rap Classified Ads and Services - For Sale

We are pleased to offer free advertising space for anyone (member or nonmember) who has items or services for sale. Details should include a description, a small photo is acceptable, asking price, and contact address/phone. Ads should be sent to HSS Editor Fred Hesse at fhesse@socal.rr.com. Items will be displayed in three issues unless a request for extension is made.

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 or email us at LaserCutting@gdhconsulting.ca.

Regards, Glen Harbottle President GDH Consulting Corp. Tel: 905-668-2326 glenh@gdhconsulting.ca

HSS Sponsors

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

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(714) 372-3777**

All HSS Club members with proof of club membership, will get a 10% discount on most parts and accessories. Discount does not apply to plane kits, helicopter kits, radios, and other already marked down products. Please ask staff if you have any further questions.

Robsrchobbies.com

robsrchobbies@earthlink.net

One day I was walking down the beach with
Some friends when someone shouted.....
'Look at that dead bird!'
Someone looked up at the sky and said...'where?'



HSS Sponsors (continued)

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Director

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HARBOR SOARING SOCIETY MEMBERSHIP APPLICATION FOR 2015

**P.O. Box 1673
Costa Mesa, CA 92626
AMA Chartered Club # 128**

AMA's Oldest Chartered Soaring Club Gold Leader Club, 2012; Silver Leader Club Since 2009

I understand that by applying for membership in the Harbor Soaring Society, I must be a current member of the AMA.
Please Print

NAME _____ **Home Ph.#** _____

ADDRESS _____ **Work Ph. #** _____

CITY _____ **STATE** _____ **Zip** _____ **E-MAIL** _____

AMA # _____ **(PROOF OF STATUS REQUIRED, Xerox copy OK)**

DATE OF BIRTH _____ **Frequency channels used** ____/____/____/____

- ☐ **NEW APPLICANTS (Without Name Tag)--(17 years and older) = \$25.00**
- ☐ **SENIOR MEMBER (Renewal W/O Name Tag)(17 years and older) = \$25.00**
- ☐ **JUNIOR MEMBER -----(16 years and under), = \$10.00**
- ☐ **Optional or Extra HSS Name tag----- = \$15.00; including mailing**
- ☐ **I hereby give my permission to publish my [NAME], [ADDRESS], [PHONE], [E-MAIL ADDRESS] in the monthly newsletter. (Strike out any element of personal information that should not be published). Note that newsletter is published on club web site.**
- ☐ **I request E-mail delivery of the monthly newsletter. (Include E-mail address above.)**
- ☐ **I request printed copy of the monthly newsletter by U.S. Mail. Printing and mailing = \$20/year.**

My interests in radio control flying include (Check all that apply. Identify future interests with letter F):

Thermal Duration Gliders _____	Slope Soaring Gliders _____	RES Gliders _____
Large Scale Gliders _____	Hand Launched Gliders _____	Electric Motor Gliders _____
Park Flyer Electric Planes _____	Acrobatic Electric Planes _____	Scale Electric Planes _____
Electric Pylon Racing _____	Indoor Electric Planes _____	Electric Helicopters _____

New applicants making application between November 1st and December 31st will pay the annual rate indicated above and such dues will make the new member paid in full from November 1st through the following year. Applications for senior membership between July 1st and October 31st pay a reduced rate of \$10 (Name Tag extra). A signature is required from all Harbor Soaring Society members, and applicants, agree to comply with the current AMA Safety Code and the current HSS General Field rules and Field Safety Rules. Note that a City of Costa Mesa permit is required to fly at Fairview Park. Obtain this from the Costa Mesa Parks and Recreation Department. Cost is \$25.

The undersigned attests that: I will operate my model using only radio control frequencies currently allowed by the FCC. Further, any transmitter that I use at any designated HSS flying field must be manufactured to meet the AMA/FCC specifications for model aviation. I understand that my failure to comply with the above restrictions will result in nullification of liability coverage for damages caused or claimed.

SIGNATURE: _____ **DATE** _____

Total dues owed and attached: \$ _____

SIGNATURE OF CLUB OFFICER RECEIVING APPLICATION _____

Rev: 24 Nov 2014



HSS Sponsors (continued)

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CLUB MEMBER NEWS

September 2015

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With Coupon, Only \$19.99

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\$1.50!

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 September 2015 Club Newsletter Ad from Hobby People.

HARBOR SOARING SOCIETY OFFICERS FOR 2015

President	Henry Smith III	714-322-6537	henry.smith.3@earthlink.net
Vice President	Mike Fox	714-421-1556	brittanie1@verizon.net
Treasurer	Jim Hanson	949-294-8365	tog4rc@pacbell.net
Secretary	Ted Broberg	714-235-6430	tbroberg@earthlink.net
General Director	John Anderson	949-723-1556	johnhanderson36@gmail.com
Contest Coordinator	Mike Fox	714-421-1556	brittanie1@verizon.net
Safety Officer	Bruce Schaefer	714-814-6412	metaterra@msn.com
Alternate Safety Officer	Dave Whittington	949-872-0182	pincus4iondave@yahoo.com
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Social Media Manager	David Miller	949-351-7047	davidjmiller949@gmail.com
Lead Flight Instructor	Ted Broberg	714-235-6430	tbroberg@earthlink.net

See our web site at www.harborsoaringsociety.org, our YouTube site at

<http://www.youtube.com/user/hssletsfly> , and Facebook at www.facebook.com/harborsoaringsociety

NEXT CLUB MEETING WILL BE:

**TUESDAY SEPTEMBER 1, 2015, AT ROUND TABLE PIZZA, 11095 WARNER AVE.
HUNTINGTON BEACH, GENERAL MEETING 7-9 PM.**

**BRING YOUR FAMILY, WIFE, AND FRIENDS FOR DINNER. WE WILL FEATURE A PRESENTATION
BY THE FULLERTON STATE UNIVERSITY TITAN TEAM THAT PARTICIPATED IN THE
INTERSCHOLASTIC UAV COMPETITION. WE WILL ALSO HAVE SHOW AND TELL, AND A RAFFLE.**

SEE DETAILS AND INSTRUCTIONS TO LOCATION ON PAGE 13.

SEE THE COLOR NEWSLETTER SENT BY E-MAIL AND AVAILABLE ON OUR WEB SITE.

