



Harbor Soaring Society

Charter #128 Costa Mesa, California
 AMA's Oldest Radio Controlled Soaring Club
 Silver Leader Club Since 2009



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, 2015-2016.

August 2016

HSS IS NOW OVER 52 YEARS OLD!

Volume 53

Speaker for next General Meeting (August 2) will be Dan Thompson of "My Trick RC". He will be discussing his LED products.

Plane Rap Index

Check out the following articles:

- July 5 General Meeting Minutes P.2-4.
- Other Opinions on Battery Care. P.5,
- July 10 Steering Committee Min. P.6-7.
- July 14 Steering Committee Min. P.7.
- Drones Save Lives. P.7.
- Bylaw Revisions. P.8.
- FAA Extension Signed. P.8.
- New Altitude Rules. P.9-10.
- HSS Membership. P.11.
- Early California Days P.11.
- Fairview Park Weather Station. P.12.
- SC2 Competition Schedule. P.13.
- Seen Around The Field. P.13-14.
- Pilot of the Month. P.15.
- Senator Feinstein. P.16.
- City Flying Permits. P.17.
- Contributions to Newsletter. P.17.
- Next Meeting Announcement. P.18.
- Next Meeting Agenda. P.18.
- Next Meeting Raffle Prizes. P.19.
- Ads and Services. P.20.
- HSS Sponsors. P.20,21,23.
- HSS Membership Application. P.22.
- HSS Officer Contact Information. P.24.

Coming Events and Soaring Competitions

August - September 2016

- Tuesday August 2. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.18 for details.
- Saturday Aug. 13. Flying Safety Seminar will be held at Fairview Park. Event open to all.
- Saturday Aug. 13. Community Open House at Fairview Park. Flying lessons, demonstrations for schools and local groups.
- Sunday August 21. Seventh SC2 soaring competition. Hosted by Thousand Oaks Soaring Society. Held in Thousand Oaks.. See www.toss.freesevers.com for details.
- Tuesday September 6. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.14 for details.
- Sunday Sept. 11. HSS Bent Wing Glider competition. Details to be provided.
- Sunday September 18. Eighth SC2 soaring competition. Hosted by Soaring Union of Los Angeles (SULA). Held at Field of Dreams, San Pedro. See www.sulaclub.org for details.



HSS General Meeting Minutes for July 5, 2016

The General Committee meeting of HSS was held at Round Table Pizza, Fountain Valley, CA.

- Called to order at 7:02 P.M. by Pres./General Director Joni Whitsitt; Also in attendance were Vice President Henry Smith III, John Anderson; Editor Fred Hesse, Randy Wilbur, Mike Fox, Jim Sonnenmeier, William Vincent II, Ryan McMinimy, Dick Baxter, Bill Sharkey, Dick Odle, Sid Hood, Ross and Maxine Thomas (and Maxine's nephew Aaron Netemeyer and his son Kevin Netemeyer, Jesse Calleros, Larry Koch, Bruce Schaefer, Visitor Charles Watson, new member Gary Norman, and of course acting secretary Ted Broberg.
- To open the meeting, Joni conducted the pledge of allegiance.
- Joni introduced Mark Silzle, manager of Hobby People Lake Forest. He gives lessons on Lithium-Polymer battery usage and care, as well as information on some innovative devices that Hobby People have made available.
- Batteries: Lithium Polymer batteries for model aircraft use.
 - Do not run your batteries below 3.7 Volts per cell. Test your system by making several short flights, then check your battery voltage. When you have determined a total flying time, record that time. Set a timer on your transmitter that warns you when your flying time should end.
 - After flying, re-charge your batteries to the storage (or sleep charge) voltage of 3.8 Volts per cell. LiPo's will maintain this storage voltage for many months without degrading..
 - LiPo's only stay at maximum charge of 4.2 Volts per cell for about 50 hours. After that, they start to give off methane gas, and degrade. This is happening when you see a battery get puffy. If your battery smells of perfume, it's leaking and is dangerous. It is recommended not to fully charge your batteries more than a day before you plan to use them.
 - Mark says to bring your charger in and he will show you what you need to know about storage charges. Normally, chargers charge to a peak voltage of 4.2 Volts per cell. A charging parameter must be changed to achieve the storage or sleep voltage of 3.8 Volts.
 - Batteries should never be charged through the balance connector. Strangely, the RADIAN and other planes come with a charger that charges only through that port. In the process of charging, chargers with balance capability actually discharge individual cells in order to bring them all to the same level of voltage.
 - Mark says you don't need to buy anything over a 30 C battery! This is because higher C rated batteries can only sustain that rating for short bursts.
 - The damage (to homes, etc.) happens during charging, when the batteries are likely to catch fire or explode. Always charge your batteries in a flame proof container.

Editor's note: See short topic on batteries following this report.

- Watt Meter: Mark considers the Watt Meter "The Bible of Electric Flying ". Everyone should get one and learn to interpret the readings.
 - When placed between your battery and ESC, a proper Watt Meter displays current, voltage, and calculates the resulting power (Watts) and Amp-Hours (Capacity). You won't know what you have without a meter.
 - The relation between your motor, ESC, and battery are strongly influenced by the propeller you select. A propeller with too large a diameter or too high a pitch will cause excess current flow and will burn out your motor and/or your ESC. Verify your combination of motor, battery, and prop on the ground. A small margin of safety will result when in the air.



HSS General Meeting Minutes for July 5, 2016 (Continued)

- Mark uses the guideline of one inch of pitch is equivalent to two inches of diameter. Higher pitch props are best for hot liners and other fast planes. Lower pitch props are better for 3-D stunt planes and slower flying trainers.
 - Older Watt Meters built in plastic cases have a maximum current capacity of 50 – 60 Amps. The new Watt Meters offered by Hobby People are packaged in aluminum cases, and are capable of handling up to 100 Amps.
- Servo driver: Mark introduced a small inexpensive device that controls servos without using the receiver and transmitter.
- Mark demonstrated the various uses of a servo driver to find the center of movement, range of movement, checking mechanical linkage for non-binding operation.
 - They can be used with an ESC to verify motor operation and rotation direction, without the danger of the motor flying across the shop!
- Hobby People Management:
- Mark reported that corporate management is changing. We'll be adding products, and bringing back some things we used to carry.
 - They're cleaning out years of obsolete products.
 - They're going to carry TACTIC (Great Planes), Futaba, and Hitec products. Sanwa/Airtronics stopped servicing their warranties, telling Hobby People to take over the warranties, so Hobby People is cutting ties with them.
 - Mark spends a lot of time as a flight instructor. He likes a motor glider, especially the SUPER-FLY Y, for training. He wants students to learn fine control, sensing wind, rationing battery power, and it's more easily learned with a power glider than with a powered plane.
 - He showed a NEW PRODUCT, A B-25 MITCHELL model that is very detailed. It's a very high-density foam, with a very smooth skin. It's distributed by Fly-Zone. He doesn't recommend landing it on grass or our field with the light-weight landing gear. Belly-land on the patches of grass instead.

The main part of the meeting continued as follows.

- Joni: Concerts in the Park in July: the next three Tuesday evenings, we'll staff a booth at our Fairview Park for HSS. Call or see Fred or Joni to sign up. Fred, Henry 3, John A., and Ted will work one or more days each. More people would be helpful: Dates are Tuesdays, July 12, 19, and 26, from 4:30-7:30 p.m. We'll have a flight simulator, the Flier on a Wire, some club literature, and static model displays.
- July 23 is HOT DOG DAY! Come on down! It's Free! 10:00 to 3:00 Saturday. Our President Joni Whitsitt is hosting this event at no charge to the club. See details of activities elsewhere in this newsletter. Thanks, Joni.
- October brings the Pumpkin and Scarecrow Festival. We need to staff that, also. We've had a scarecrow entry in this the past two years, and have taken prizes each year. Vince San Filippo, John Anderson, and Ted Broberg built our scarecrows. Henry helped, too.



HSS General Meeting Minutes for July 5, 2016 (Continued)

—**We need a Safety Officer.** Bruce Schaefer does this when he's here, but we need more coverage.

— It's time to mow again. We'll call a work party soon.

—We're having a Steering Committee meeting this coming Sunday about a number of topics, including the new retriever procurement that Joni wholeheartedly supports. She would like to have fliers of all our groups to take part in the meeting which will occur on Sunday July 10 at 11:00 AM, at Fairview Model Airport.

— SHOW AND TELL:

—John Anderson:

1. Model Aviation-July p33 - mentioned local champion Lee Hines. Lee test flies his winning FF models at Fairview. These models include RC motor cutoff and dethermalizer functions.

I suggested that Henry contact him to speak and I gave him Lee's card. Jim S. agreed and noted that Lee was a good presenter and had done so once before for HSS. I also noted that it would help foster dialogue with our free-flight folks at Fairview. Randy Wilber nodded agreement.

2. In that same issue, page 93, it was announced that "Flying Models magazine was restarting and would soon be taking subscriptions.

3. I showed my new August copy of Model Airplane News. That morning I had finally mailed letters to the subscription service and publisher expressing concern for the as yet to be delivered magazine. The magazine arrived in the PM mail. What service!

4. I also showed the magazines that Sid Hood brought to share with me. I thanked him and noted that we should all bring in some magazines, books, videos, etc. to share at the meeting, to loan or trade to interested members. I further noted that HSS should still have a good library of VHS tapes which members could borrow -and maybe convert to DVD.

5. Jim Sonnenmeier mentioned that the Smithsonian Museum publishes a monthly magazine called Air and Space Smithsonian.

—**OPPORTUNITY DRAWING**

WINNER	PRIZE	DONOR
1. Joni Whitsitt	8.4 Volt NiCd charger	
2. William Vincent II	27" CESSNA model	Henry Smith III
3. Larry Koch	Astro Flite WHATT meter	
4. Ted Broberg	Parts sorter box	
5. Randy Wilbur	Two HiTec HS 235 AG servos	
6. Sid Hood	Bag of landing gear & wheels	Vince San Filippo
7. Jesse Calleros	3 s LiPo charger	
8. Bill Sharkey	2 s LiPo charger	
9. Mike Fox	Flight timer	Hobby People F V
10. Jim Sonnenmeier	CA glue	Hobby People F V
11. Ryan McMinimy	Android/iPhone plane game	
12. Bruce Schaefer	Small parts box	

— Meeting adjourned at 8:50 p.m.

— Respectfully submitted, Ted Broberg, Former Secretary



Other Opinions on Battery Care

Jerry Smith is a very active club member who tends to specialize in larger models and Electric Ducted Fans (EDF). Jerry reviewed the recommendations by Mark Silzle, and added the following comments.

Here is my take. I actually agree with most of the statements. However, I hope he meant to discharge the batteries in the plane while it is flying. Unfortunately that is hard to do if you do not have telemetry in the plane, (most people do not). All my batteries are charged via the positive and negative wires in conjunction with the balance connector, otherwise you could not balance charge. It is imperative to do a balance charge. In a way he is right about the 30 C. For most higher C batteries (less expensive) it is only a selling technique to make more money out of cheap batteries. There are some i.e. Turnigy Graphene that if it is marked as 65 C will be 65 C throughout the continuous draw down of the battery. I have found that useful with the EDF jets. When a battery is marked with higher than 30 C it is talking about burst speed for about the first 3 seconds. I personally have a discharger that is designed for quick discharging of batteries without the possibility of killing a battery. Doing so via your charger is cumbersome and takes a while to discharge multiple batteries. Never store a battery in a full charge position. It should be partially charged to not less than 3.80 Volts per cell. Running the plane on the ground with batteries with a prolonged high power will actually ruin the batteries and the motor (DO NOT DO IT!). I have seen a lot of guys doing just that. The reason not to is due to lack of cooling in a stationary mode which builds heat and puts strain on the battery and motor, creating nothing but disaster.

The best way of finding out how long any airplane can fly is start of with a lesser time than what you intend to fly in the future. For instance let's just say the normal flying time with a 3600 mah battery is 6 minutes with a 3 cell battery on a small motor. First flight should be 3 minutes. Land then check the battery voltage, if it is at 3.9 volts then you know you can fly longer. So you increase to about 5 minutes and land. Now your voltage is around 3.81. So by this method you know you can safely fly for 5 minutes, so you set your timer for the 5 minutes knowing that you can safely fly for another 1/2 minute, if needed, to allow yourself a possible second chance at landing should someone walk across the field or need to land in front of you. It just gives you a chance not to over discharge the battery.

Jerry stores his partially charged batteries in a refrigerator. Batteries should be stored at a temperature of around 50 degrees F. It is possible to go down to around freezing.

National Model Aviation Day

Celebrate model flying on National Model Aviation Day

Join the Academy of Model Aeronautics Foundation in celebrating model aviation for the fourth annual National Model Aviation Day, August 13, 2016. National Model Aviation Day was created to encourage clubs to celebrate the hobby and share it with the public. Our chartered clubs have also been asked to conduct a fundraiser to provide assistance to a worthy cause. For this year all clubs have been asked to support [Disabled American Veterans \(DAV\)](http://www.DisabledAmericanVeterans.org). With almost 1,300 chapters and nearly 1.3 million members across the country, DAV empowers our nation's heroes and their families by helping to provide the resources they need and ensuring our nation keep the promises made to them..



Steering Committee Meeting Minutes of 10 July, 2016

The Steering Committee meeting of HSS was held at Fairview Park, Costa Mesa, CA. The meeting convened at 11:10 A.M. on Sunday July 10, Joni Whitsitt, President, presiding.

Board and Steering Committee Member in attendance were: Joni Whitsitt, Jim Hanson, Henry Smith III, Bruce Gale, and Fred Hesse. Club members and guests included Erv Szego, Dick Odle, and Jim Sonnenmeier.

Old Business

Looking for candidates to fill the Safety Officer vacancy. Bruce Schaefer was approached and indicated he does not want to wear the orange vest.

Hot Dog day is scheduled for Saturday, Jul 23, 2106 from 10:30 A.M – 2 P.M. Hotdogs, chips, condiments will be provided. The purpose is to enhance membership comradery. Discussed was inclusion of a Fun Fly. This event paid for, courtesy of President Joni Whitsitt.

The Bent Wing contest is scheduled for Sep 11, 2016. Jim Hanson applied for an AMA sanctioned event which provides for additional insurance. A flier has been drafted and the city of Costa Mesa has issued a permit.

New Business

Revised By-laws prepared by Dick Odle and Henry Smith III have been approved by the attorney with a recommended change to Article XII: See and Avoid Policy: change “always have precedence” to “always has right of way”. Henry Smith III moved to accept this change and Bruce Gale seconded. The Steering Committee unanimously approved.

Joni Whitsitt will email the bylaws to the club membership for approval and include a cover letter highlighting changes. Joni will first send the cover letter to the Steering Committee for review.

Funding for new/newer club equipment – mower, container, winch/retriever. Discussed the need for fundraisers to help repair/purchase equipment. Dues provide approximately \$2500 per year.

Items requiring funds:

- Container: while structurally sound, painting is needed as well as some repairs, such as a door hinge.
- Mower: no repairs are needed now, but it is coming to the end of its useful life – perhaps 2 more years.
- Purchase of a new winch line Retriever. Cost is approximately \$900. Jim Hanson believes the club can contribute up to 50% of the cost of a Retriever. Henry Smith III moved to submit the full expense of the Retriever to the membership for approval. Bruce Gale seconded it. The Steering Committee unanimously approved.

Fundraising initiatives

- Previous funding efforts included soliciting donations. Contests have also generated income.
- A suggestion was made to hold an Electric Fun Fly as a fund raiser. Henry Smith III said he would consider being a Contest Director. Bruce Gale offered to help if Henry agrees. Some possible events include runway landing, limbo, and slow stick. October 2016 was suggested as a possible month to hold the event. Participants need only be an AMA member.

There will be a Safety meeting on Aug 13, 2016 at the flying field. Greg Stone, AMA VP will speak. A canopy will be put up to promote the club.

A work party is needed to clean the field. A suggestion was made to combine this with Hot Dog day, and provide a free hot dog to participants. Henry Smith III and Ted Broberg will mow the field prior to the event.

HSS has received request to participate in a Historical Society event on Sunday Aug 28, 2016 from 1-4 P.M. Joni Whitsitt will consider when she receives more information.



Steering Committee Meeting Minutes of 10 July, 2016 (Continued)

The Scarecrow event will be held the last week of October 2016, possibly the 29th, but to be confirmed. HSS will hand out free-throw paper gliders with the club name on them. It was suggested to use orange paper. They may be cut out by hand or possibly by machine. It was suggested that members could help cut and fold the gliders at a monthly meeting.

The Steering Committee meeting was adjourned at 12:30 P.M.

Respectfully,

Bruce L. Gale, Secretary

Harbor Soaring Society

Steering Committee Meeting Minutes of 14 July, 2016

An Emergency Steering Committee meeting of HSS was held on Jul 14, 2016 at Silky Sullivan's Restaurant & Irish Pub in Fountain Valley, CA. The meeting convened at 7:40 P.M. Joni Whitsitt, President, presiding.

Board and Steering Committee Member in attendance were: Joni Whitsitt, Henry Smith III, Fred Hesse, and Bruce Gale.

Jim Hanson turned in his resignation as HSS Treasurer to Joni Whitsitt and Henry Smith III. Joni moved to accept Jim's resignation. Henry seconded it, and it was unanimously approved by the Steering Committee.

Joni will email the Steering Committee when she finds someone to accept the position of Treasurer. In the meantime, Mike Gaczowski will maintain the roster and David Miller will monitor the PayPal account.

A committee will be assembled to search for a Safety Coordinator.

The Steering Committee meeting was adjourned at 7:45 P.M.

Respectfully,

Bruce L. Gale, Secretary

Harbor Soaring Society

Drones Save Lives

Steve Belknap, editor of San Diego Silent Electric Flyer's newsletter (Peak Charge), has shared this interesting link. It is a YouTube short video on "6 Unbelievable Ways Drones Can Save Lives". This is a good example of the commercial application of drones, and has been viewed about 250,000 times.

<https://www.youtube.com/watch?v=lr2pvAMZWb0&sns=em>



Long Overdue Bylaw Revisions

Many thanks to Dick Odle who has spent weeks revising HSS Bylaws, a task that as stated in the Bylaws is to be performed annually. Here is a summary of his efforts.

Hello Membership-At-Large! Looking at the existing Bylaws of the Harbor Soaring Society (HSS) it occurred to me that revisions were necessary to drag us into the current Century. With permission of the HSS Steering Committee, I took on the rewrite. After many reviews and revisions, six in all, the work is complete.

Toward this effort I sought a solid basis on which to do this work. The Academy of Model Aeronautics (AMA), our charting national organization, provided the perfect solution with an outstanding guideline for all chartered clubs. I followed its guidance explicitly as to form, organization and content... thus assuring a solid legal foundation.

I want to thank all who contributed to this work, but particularly Henry Smith III who contributed so much thoughtful work to this effort. The final result was reviewed at no cost by an attorney, thanks to Joni Whitsitt, our astute President. The attorney made only a very minor change to one sentence and judged the revised Bylaws to be lawful. Whew! That was good news...

Joni, our President, will be sending this document to you ALL for review, comment and approval. I emphasize ALL because the current Bylaws require just that. I certainly want you to review the Bylaws, and certainly comment should you desire, but... most importantly... return a "Yes, I approve."

To approve these revised Bylaws requires a simple majority of the total membership-at-large so a YES vote is important as we move this wonderful club forward. Thanks to all...

Respectfully submitted, Dick Odle, Member, Harbor Soaring Society

FAA Extension Signed Preserving Special Rule for Model Aircraft

Dear Members,

We are happy to announce big news related to FAA authorization. As of today, both the Senate and House of Representatives have passed a 14-month FAA extension, and the President has signed the bill into law.

We are very pleased that the FAA extension affirms our right to continue to fly within AMA's community-based safety program and free from additional government regulations. Congress continues to recognize the importance of AMA and our strong commitment to safety.

As you know, AMA aggressively engaged with Congress to achieve the best possible result for our members. It is through these advocacy efforts that we were able to achieve our goal of maintaining the Special Rule for Model Aircraft and protecting our hobby. This victory adds to AMA's history of successfully advocating for our members at the federal level, including with the Federal Communications Commission (FCC), the Department of Commerce, the Environmental Protection Agency (EPA), the Department of the Interior, the U.S. Forest Service, the Department of Homeland Security, the FAA and Congress.

There are two important things for all AMA members to know about the extension. The first, and most important for our hobby, is that the extension preserves the Special Rule for Model Aircraft (Section 336 of the 2012 FAA Modernization and Reform Act) through September 2017. And second, while this bill does not nullify FAA's requirement to register, we are pleased to share that the problematic language that existed in earlier FAA bills has been removed.

Our advocacy efforts are not over - we continue to work with the FAA on reducing the burden of the registration requirement on AMA members. And, over the next 14 months, we will continue to work with Congress on a long-term reauthorization bill that will further strengthen the Special Rule for Model Aircraft and advance other protections of our longstanding hobby.

We want to extend our appreciation to all of our members and donors for your support throughout this process. Thank you, AMA Government Affairs Team 15 July 2016



New Altitude Rules

The FAA has just arranged for changes to the 400 foot altitude limit. Here is the first message to the AMA.



U.S. Department
of Transportation
**Federal Aviation
Administration**

JUL 07 2016

Mr. Dave Mathewson
Executive Director
Academy of Model Aeronautics
5161 E. Memorial Drive
Muncie, IN 47302

Dear Mr. Mathewson:

This letter addresses whether unmanned aircraft flown under the model aircraft provisions of Section 336 of the 2012 FAA Modernization and Reform Act¹ must be operated below 400 feet above ground level (AGL). As stated in the FAA's Interpretation of the Special Rule for Model Aircraft,² and in historical references below, the 400 foot altitude limit is recommended and not a requirement of Section 336. Model aircraft may be flown consistently with Section 336 and agency guidance at altitudes above 400 feet when following a community-based organization's safety guidelines.

The FAA has a long history of guidance advising model aircraft operators to fly below 400 feet AGL to minimize hazard to full-scale aircraft in flight. In 1981 the FAA published Advisory Circular (AC) 91-57 which "outline[d], and encourage[d] voluntary compliance with, safety standards for model aircraft operators" for the stated purpose of reducing the potential for model aircraft posing a hazard to full-scale aircraft in flight and people and property on the ground.³ In that AC the FAA cautioned: "Do not fly model aircraft higher than 400 feet above the surface."⁴

The FAA reiterated these recommendations in a 2007 Federal Register notice discussing unmanned aircraft operations. The notice stated "[m]odel aircraft should be flown below 400 feet above the surface to avoid other aircraft in flight."⁵ Finally, in a 2015 update to AC 91-57 the FAA advised model aircraft operators to "follow best practices including limiting operations to 400 feet [AGL]."⁶

Section 336, the provision specifically addressing model aircraft in the 2012 FAA Modernization and Reform Act, does not contain a definitive altitude limitation for model aircraft operations. Rather, it requires operation of model aircraft "in accordance with a community-based set of safety guidelines"⁷ Community-based organizations, such as

¹ Pub. L. 112-95.

² 79 Fed. Reg. 36172, 36172 (June 25, 2014).

³ AC 91-57, Model Aircraft Operating Standards (June 9, 1981).

⁴ *Id.*

⁵ Unmanned Aircraft Operations in the National Airspace System, 72 Fed. Reg. 6689, 6690 (Feb. 13, 2007).

⁶ AC 91-57A, Model Aircraft Operating Standards (Sept. 2, 2015).

⁷ Pub. L. 112-95, Sec. 336(a)(2).



New Altitude Rules (Continued)

the Academy of Model Aeronautics, may establish altitude limitations in their safety guidelines that exceed the FAA's 400 foot AGL altitude recommendation.

Although such safety guidelines may provide for flight above 400 feet AGL, Section 336 also protects the safety of manned aircraft operations by requiring that model aircraft not interfere with and give way to manned aircraft.⁸ The statute also explicitly affirms that the FAA may pursue enforcement action against model aircraft operators who endanger the safety of the NAS.⁹

Sincerely,



Earl Lawrence
Director
Unmanned Aircraft Systems Integration Office

Jim Hanson's Resignation

I was sad the day Jim Hanson called to inform me he was resigning from the club. Many of you know Jim better than I and all of a sudden a sadness came over me. Why would such a wonderful person who helped people all the time suddenly leave people he's been around all these years. I've been in this hobby since 1984 and have seen many good people leave because of argumentative comments between individuals. The results of this have caused health issues. Jim is stepping down to regain his strength and health.

Someone is always right, right. Our hobby is special, each and everyone one of you are special. This is a hobby, let's not get caught up with our own agenda's.

I look forward to Jim's speedy return in the near future. Joni Whitsitt, President, Harbor Soaring Society

Field Cleanup July 15.

Ted Broberg sent the following note concerning the field cleanup on July 15.

Michele Dow, the mom of two of our young pilots, sent me these snapshots. Workers include Nathan and Patrick Dow, Henry Smith III, Ted Broberg, Ron Bulsombut, and a gentlemen whose name I do not know.



HSS Membership

Our 2016 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.. 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 12 of this newsletter.

Early California Days

Early California Days is a community event hosted by Costa Mesa Historical Society. This year is our 50th anniversary of the society and a signing of our new Costa Mesa history book. There is no charge.

The event occurs on Sunday 28 August, 2016, 1 to 4 PM, at Estancia Park located at 1900 Adams Avenue.


Thanks to Tess of the Historical Society for the invitation - Ed.

A SPECIAL INVITATION FROM
THE COSTA MESA HISTORICAL SOCIETY

EARLY CALIFORNIA DAYS

Celebrating 50 Years of restoration and preservation of the
Diego Sepulveda Adobe at Estancia Park

SPEND A DAY IN THE PARK
TOURS OF THE ADOBE MUSEUM
SPECIAL GUESTS
ACTIVITIES FOR ALL AGES
COSTA MESA 1940-2003 BOOK SIGNING
FOOD FOR PURCHASE



August 28 2016 1pm-4pm Estancia, Park 1900 Adams Ave
For more information, call (949) 631-5918 costamesahistory.org or cmhistory@sbcglobal.net

FREE ADMISSION

Concerts at the Park

Each July, the City of Costa Mesa offers free concerts at Fairview Park. HSS participates by maintaining a booth. We offer various simulators and demonstrations. At right, is Ralph Siegfried assisting kids with the "Flyer on a Wire" Henry Smith III demonstrated the buddy boxes for our trainer, Fred Hesse ran the RealFlight computer simulator, and Ted Broberg taking photos and doing everything else. Thanks, Ted - Ed.



AMA District X Web Site

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.

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're 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.

Fairview Park Weather Station

Jim Sonnenmeier suggests that HSS utilize the very excellent weather station located at Waldorf School. Try this web site as it has an amazing amount of detail, both historical and predictive. There is even data that suggests good flying days and hours for slope soaring. This link will also be featured on our web site.

<https://www.wunderground.com/cgi-bin/findweather/getForecast?query=pws:KCACOSTA18>

Interesting Web Sites

Jim Sonnenmeier has provided a number of web sites that should be of interest to HSS members.

- Paul Naton recently won the Polecat Altitude Limited Electric Soaring contest in central Pennsylvania. He has a company called Radio Carbon Art Productions, through which he provides video training programs for the R/C soaring pilot. His web site is www.radiocarbonart.com where he maintains a blog loaded with a variety of free lessons applicable to ALES and F5J competitions.
- Switzerland's Federal Polytechnic Institute is proposing a revolutionary approach to commercial aviation. <http://www.cnn.com/2016/07/05/aviation/clip-air-pod-airplane-concept/index.html>.
- The Carbon Flyer is like a paper glider but is made from thin carbon flat stock, and is electric powered. The link is <http://toyland.gizmodo.com/this-rc-carbon-fiber-glider-looks-like-a-stealthy-paper-1664085145>.
- A feature on how to control the above Carbon Flyer with your cell phone is fascinating. The link is <https://www.indiegogo.com/projects/carbon-flyer-cell-phone-controlled-plane#/>.
- Here is one on a full sized aircraft landing on the aircraft carrier USS Eisenhower when the arresting cable snaps. <https://www.youtube.com/embed/r-EHwYOfY94>
- Jet Propulsion Laboratories has recently established a site called NASA's Eyes that has magnificent photos of space, and a number of JPL missions. The link is eyes.nasa.gov.
- Boeing's intrepid team of test pilots are back with another stunning aerobatic stunt video starring the company's 787 Dreamliner. This is a practice run for a performance at next week's Farnborough Airshow. Check this out at <http://finance.yahoo.com/news/boeings-test-pilots-just-released-140900355.html>, and at https://www.youtube.com/watch?v=CwxGDdsl_bU.
- The Farnborough Air Show. http://aviationweek.com/farnborough-airshow-2016/farnborough-airshow-air-display-highlights?NL=AW-05&Issue=AW-05_20160715_AW-05_841&sfvc4enews=42&cl=article_6&utm_rid=CPEN1000001531351&utm_campaign=6448&utm_medium=email&elq2=ef7441c1051c45ffadef1ba4cdcb3fc5 and 05_841&sfvc4enews=42&cl=article_6&utm_rid=CPEN1000001531351&utm_campaign=6448&utm_medium=email&elq2=ef7441c1051c45ffadef1ba4cdcb3fc5.



SC2 Competition Schedule for 2016

Soaring Clubs of Southern California (SC2) posted the 2016 competition schedule at 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.

- Feb. 28. Hosted by Silent Wings Soaring Association (SWSA) Azusa/Covina. www.silent-wings.org .
- Mar. 20. Hosted by Downey SoarHeads (DSH) at Fairview Park. downeysoarheads@yahoo.com
- April 17. Hosted by Silent Wings Soaring Association (SWSA) Azusa/Covina. www.silent-wings.org .
- May 15. Hosted by Victor Valley RC Flyers (VVRCF). Victor Valley RC Park, Hesperia. www.vvrcf.org .
- June 19. Hosted by Harbor Soaring Society (HSS), Fairview Park, www.harborsoaringsociety.org .
- July 17. Hosted by Inland Soaring Society (ISS), Riverside. www.glideiss.us .
- Aug. 21. Hosted by Thousand Oaks Soaring Society (TOSS), Thousand Oaks. www.toss.freesevers.com
- Sept. 18. Hosted: Soaring Union of Los Angeles (SULA) at Field of Dreams, San Pedro. www.sulaclub.org
- Oct. 23. Hosted by Torrey Pines Gulls (TPG), Glider field at Encinitas. www.torreypinesgulls.org .
- Nov. 20. Rain date,
- Dec. 10. Mark Child Memorial Toys For Tots competition at SULA, San Pedro. www.sulaclub.org .

SC-2 Competition Results

The results of the sixth SC2 soaring competition held on 17 July, at Inland Soaring Society, Riverside were not available in time for publication. See September Plane Rap. - Ed.

Seen Around The Field

Ted Broberg provided the first two photos, humorously referred to as BROFOTOS.

Ted reports: Henry 3 and I met Cham and his autogiro and friends at the field today. Cham was injured after 35 years of hang-gliding in a paraglider accident.

Thanks, Ted. - Ed.



Seen Around The Field (Continued)

Rob Askegaard has provided the following photos.

At right is Jeff Denham and his Sopwith Pup. The previous owner of this plane was Walt Cloer.

Below is Jerry Laux with his big Telemaster.

Bottom left and right is Johathan Beck with his Sky (Manta) Ray FPV wing by Hobby King. The plane has air speed, GPS, camera (to fly with), all included in the telemetry down link.

Thanks Rob. - Ed.



Pilot of the Month

Louis Luong has been very busy with a number of new planes.

At right is Louis and his Boeing 737 electric ducted fan jet.

Below left, Louis holds a Hyperion P-51 with an AXI 4120 motor. This plane was originally built by Sean Nguyen.

Below right, Louis holds his helicopter, and bottom is his very nifty F-22 EDF jet.

Thanks to Rob Askegaard for the great photos and descriptions.



Reply From Senator Feinstein

The AMA had recently suggested that all members contact their representatives in Washington DC concerning the FAA regulations on drones and model aircraft in general. Being a good little puppy, your editor fired off a communication to our Senator Dianne Feinstein. Here is her reply.

Dear Mr. Hesse:

Thank you for contacting me to share your opposition to the Federal Aviation Administration's (FAA) proposed regulations for drones and model airplanes. I appreciate hearing your perspective as a member of the Academy of Model Aeronautics and welcome the opportunity to respond.

I understand you support an amendment (S. Amdt. 3596) Senator James Inhofe (R-OK) filed to the "FAA Reauthorization Act" (H.R. 636) – formerly S. 2658 – that would have exempted all unmanned aircraft weighing 55 pounds or less from aircraft safety standards. It would also have required the Department of Transportation to consult exclusively with the Academy of Model Aeronautics when crafting recreational requirements for drones. This amendment was not included in the final bill, which passed the Senate, with my support, by a vote of 95-3 on April 19, 2016.

While many drone enthusiasts are conscientious, the expanding use of these drones may have terrible consequences if not properly managed. The FAA reports receiving at least one complaint per day regarding unauthorized or dangerous drone activity near airplanes and major airports. Roughly one in five of these incidents occur in California, more than any other state. In one recent case, a commercial jet carrying hundreds of passengers nearly collided with a personal drone during the plane's final descent to Los Angeles International Airport. These close calls are absolutely unacceptable, but it is not just airplanes and airports that are at risk. During last year's fire season, there were numerous incidents involving personal drones that resulted in near collisions or required the California Department of Forestry and Fire Protection (CAL FIRE) to shut down their aerial firefighting operations.

Without clear regulations and guidelines for small recreational drones, government authorities and law enforcement are unable to adequately address these issues. On June 18, 2015, I introduced the "Consumer Drone Safety Act" (S. 1608), which would set responsible standards for the manufacture and recreational use of consumer drones. The FAA reauthorization bill includes several provisions mirroring those in the "Consumer Drone Safety Act." The first would give the FAA authority to issue guidelines for when, where and how recreational drones are used. The second would require the installation of technological safeguards including restrictions to prevent drones from flying too high or too close to critical infrastructure. I recognize that the Academy of Model Aeronautics has a strong safety record, bolstered by its education activities and responsible safety guidelines. The FAA reauthorization bill would not impose any new operational rules on model aircraft.

While we may disagree on this issue, I respect your views and will keep your concerns in mind as I continue working to enact balanced legislation to address these problems and improve the safety of our national airspace.

Once again, thank you for writing. I hope that you will continue to keep me informed about issues of importance to you. Should you have any further comments or questions, please feel free to contact my Washington, D.C., office at (202) 224-3841 or visit my website at www.feinstein.senate.gov. Best regards.

Sincerely yours,

Dianne Feinstein
United States Senator



2016 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 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.

Invitation To Member Contributions To The Plane Rap Newsletter

Your editor would love to hear from club members. If there is anything you would like to share with the rest of us I want you to send it to me. I will add it to the next newsletter. My favorite things to publish are items sent in by members!! These can be anything like reviews of your plane or equipment, links to good videos, links to articles and things you have built or created. Bad spelling and/or grammar gladly accepted. Anything from a picture with a caption to a full blown build/review article is good. Letters-to-the-Editor are always welcome as well. Tell us what you think. Please help make the newsletter and website more interesting with your submissions. Embarrassing pics/vids are the best. I look forward to hearing from you.

Fred Hesse - Plane Rap Editor - fhesse@socal.rr.com.

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.

Anyone that wishes a high quality print, or the digital file of their favorite plane should contact Rob, or your editor. Phone and E-mail are shown on the last page of this newsletter.

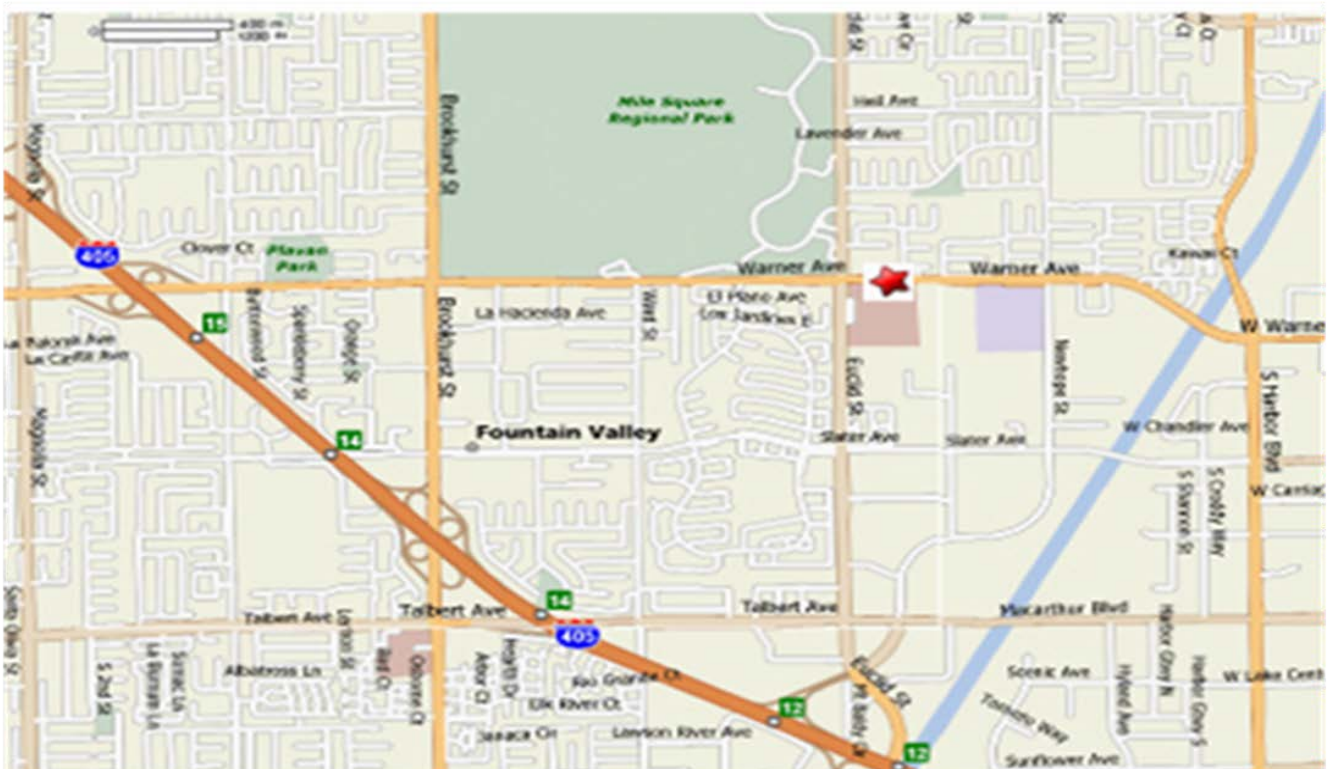


August 2 Meeting Announcement and Agenda

Our monthly general meeting is held on the first Tuesday of each month. We meet at Round Table Pizza, 11095 Warner Ave. & Euclid (North-east corner) in Fountain Valley, at 7:00 PM. 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 map is also shown below.

HSS GENERAL MEETING AGENDA TUESDAY, AUGUST 2, 2016 7:00 P. M.

- | | |
|---------|-----------------------------------------------------------------------------|
| 7:00 PM | Meeting called to order. |
| 7:03 PM | Pledge of Allegiance |
| 7:06 PM | Opening remarks by Joni Whitsitt, President |
| 7:15 PM | Joni introduces Dan Thompson of MY TRICK R/C who will discuss his products. |
| 8:00 PM | New/Old Business: Joni Whitsitt |
| | Revised club Bylaws. |
| | Club Safety Coordinator and Safety Officer. |
| | Costa Mesa Historical Society, August 28. |
| | Bent Wing glider competition, 11 September. Need CD. |
| | Electric fun fly: Oct TBD. Henry Smith CD, Bruce Gale Assistant. |
| | Flying Safety Seminar August 13 combined with HSS Open House.. |
| | Club equipment procurement. |
| | Comments on Hot Dog Day and field maintenance. |
| | Scarecrow Festival. October TBD. Need help with booth and scarecrow. |
| 8:30 PM | Show and Tell |
| 8:40 PM | Opportunity Drawing by Ted Broberg |
| 9:00 PM | Meeting adjourned. |



Raffle Prizes for August 2, 2016 General Meeting

Ted Broberg has collected the following prizes to be given away at the August 2 (Tuesday) General Meeting. They include at least the following:

- World War II Invasion photo - Donated by Taz Ellyson.
- Three AMA CD's – Donated by D. Carrithers.
- Transport stand. (Apprentice aircraft not included) – Donated by Bill Sharkey.
- Wattage Charger – Donated by Larry Koch.
- .Partial Aircraft of the World Notebook – Donated by Rob Askegaard.



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.

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Treasurer	Open		
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General Director	Joni Whitsitt	714-396-2523	whitsittjo@gmail.com
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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 AUGUST 2, 2016, AT ROUND TABLE PIZZA, 11095 WARNER AVE.
FOUNTAIN VALLEY, , GENERAL MEETING 7-9 PM.**

BRING YOUR FAMILY, WIFE, AND FRIENDS FOR DINNER. WE WILL HAVE A PRESENTATION BY DAN THOMPSON OF "MY TRICK RC" WHO WILL TALK ABOUT HIS PRODUCTS. PLAN ON SHOW AND TELL, AND A RAFFLE. SEE DETAILS AND INSTRUCTIONS TO LOCATION ON PAGES 18-19. SEE THE COLOR NEWSLETTER SENT BY E-MAIL AND AVAILABLE ON OUR WEB SITE.

