



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.

April 2017

HSS IS NOW OVER 53 YEARS OLD!

Volume 54

The City of Costa Mesa is sponsoring a cross country run at Fairview Park on Saturday April 22. Therefore, our flying field will be closed from 8 AM until Noon.

Plane Rap Index

Check out the following articles:

- March 7 General Meeting. P.2-5.
- Next Meeting Announcement. P.5.
- CAP Flying Class. P.6-7.
- Runway Status. P.8.
- AMA Rules For UAV/Drones. P.9-11.
- 2017 Schedule of RC Events. P.12.
- Safety Meeting. P.13.
- 11th Annual Warbirds Classic. P.14.
- Imaginology Flyer. P.15.
- HSS Membership. P.16.
- Fairview Park Weather Station. P.16.
- SC2 Competition Information P.16.
- SC-2 Competition Results. P.17.
- Red Bull Air Races. P.17.
- Full Size Aircraft Events. P.18.
- Interesting Internet Links. P.18.
- City of Costa Mesa Drone Info. P.19.
- City Flying Permits for 2017. P.20.
- Contributions to Newsletter. P.20.
- Ads and Services. P.21.
- HSS Sponsors. P.21-22.
- HSS Membership Application. P.23.
- HSS Officer Contact Information. P.24.

Coming Events and Soaring Competitions

April - June 2017

- Tuesday April 4, 2017. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.5 for details.
- Imaginology, scheduled for Apr 21-23, 2017. See page 15 for details.
- Saturday April 22. Flying Field is closed from 8 AM to Noon. The city is sponsoring a cross country running event.
- Sunday April 30. Third SC2 competition hosted by Riverside RC Club – Perris – See details at www.riversidercclub.org.
- Tuesday May 2, 2017. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.5 for details.
- Sunday May 21. Fourth SC2 competition hosted by Victor Valley RC Flyers (VVRFCF) www.vvrcf.org
- Tuesday June 6, 2017. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.5 for details.
- Friday – Sunday June 9-11. Warbirds scale fly-in. BlackStarr field. See P.14 for details.



General Meeting Minutes, March 7, 2017.

The General Meeting of HSS was held at Round Table Pizza, Fountain Valley, CA on March 7, 2017. The meeting convened at 7:05 P.M. President Joni Whitsitt officiating.

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

The meeting began with the Pledge of Allegiance.

Announcements, Joni Whitsitt**HSS Safety Meeting**

A safety meeting is scheduled for Saturday, March 11, 2017 at Fairview Park. Greg Stone, AMA District X, Associate VP and Jim Sonnenmeier, HSS Safety Officer will be speakers.

All HSS members are strongly encouraged to attend. Bring your HSS ID badge to the field to receive your safety sticker. Coffee and donuts will be provided.

Field Maintenance

The City of Costa Mesa rules require that the ground must be dry for 14 days from the last rainfall to mow the field. The field will be mowed just as soon as possible.

Imaginology

This event is scheduled for Friday, April 21, Saturday, April 22, and Sunday, April 23, 2017 at the OC Fair Grounds. HSS really needs your member support for this event, to help at the various stations, such as assisting John Anderson with his Build 'n Fly program. For the flight simulation station this year, we will have the benefit of the club's recent purchase of a large screen TV from Hobby People.

In addition to HSS, other aviation participants will include the Knights of Round Circle and the Civil Air Patrol. Although it was hoped to have use of the entire hangar this year, it is our goal for next year to have an Aerospace Adventure promoting aviation and aerospace.

Please consider volunteering your time to support this event and your club.

AMA Air

The March 2, 2017 segment of AMA Air featured our own John Anderson. John was interviewed at this year's AMA Expo and did a stellar job promoting HSS. The segment features John talking about his Flying Cards activities for kids to get them interested in modeling. Flying Cards uses index cards to teach kids about building and flying.

Membership

Mike Gaczkowski reported that HSS is in the middle of our membership drive, which closes Mar 31, 2017. Currently, the club has 62 adult members, 2 juniors, and 1 family. HSS also has several out of state members.

Guest Speakers:

Captain Joel Jones, Civil Air Patrol (CAP), Commander, Saddleback Composite Squadron 68, Costa Mesa, CA was the principal speaker. Captain Jones, (shown at right) along with Greg Jurek and Rick Demartino provided an informative and entertaining slide presentation on the Civil Air Patrol. Captain Jones stepped into RC with his Squadron when they held an RC day at Fairview at which 15 cadets attended.



General Meeting Minutes, March 7, 2017. (Continued)

CAP was founded 75 years ago, Dec 1, 1941 when civilian pilots ran coastal patrols to combat submarine warfare. They're even credited with sinking two subs. The organization spread nationwide quickly, and in 1944, CAP opened up to cadets. Currently there are 50,000 members, 23,000 of which are cadets. Guest speaker Gregory Jurek is shown at right.

CAP is not military, but the organization uses a military chain of command, and are allowed by the Air Force to use Air Force uniforms with CAP markings. They are considered an auxiliary to the US Air Force.

Civil Air Patrol has three Missions: Emergency Services, Cadet Programs, and Aerospace Education. Cadets can join from the ages of at 12 -17, and can remain in CAP until 21 before becoming a senior member. Many cadets go onto the Air Force Academy.

Captain Jones expressed his excitement for the experience that HSS members can bring. In addition to the many benefits of Aerospace education, projections are that the major airlines will be down 150,000 pilots in the coming years, and the future looks bright for private space exploration through companies like SpaceX.

Back to the cadets. He also invited HSS members to consider becoming a Friend of CAP member for only \$35 per year.

Many thanks to Joel and Gregory for their presentation. We hope the CAP and HSS have a long and productive relationship. - Ed.

David Miller, HSS Social Media Manager

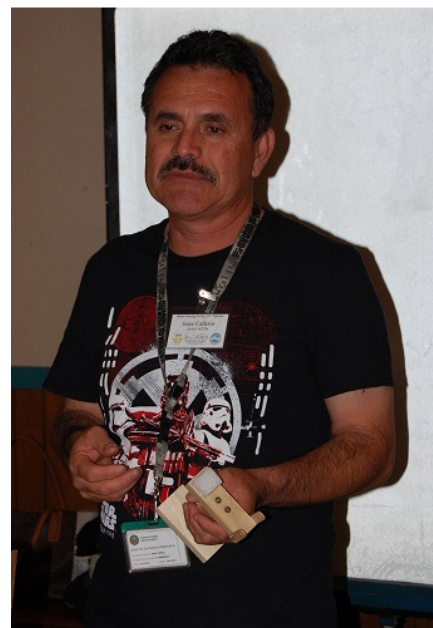
David (shown at right) shared his scratch built P-63 King Cobra, WWII model plane. David built this model using plans from the AMA web site, and it's taken him two years to build it at a cost of about \$500. The plane is built with balsa, plywood and fiberglass. David purchased stencils for the plane's markings. The model weighs in at 7 pounds with batteries, and has electric spring loaded retracts.

We look forward to hearing back from David after his maiden flight. Good luck!



General Meeting Minutes, March 7, 2017. (Continued)**Show 'n Tell**

- Bob Davey shared a 1970's Dirty Birdy built from a 25-year-old kit. He converted to electric using a Rimfire 60 motor, and 6S battery. Bob has flown it 11 times – with acrobatics! The plane weighs in at 7.25 pounds, and the challenge for this plane is cooling. Shown below left.
- Jessie Calleros showed a Dick Baxter rubber-powered Pussycat design. Shown bottom right.
- Dick Baxter showed a Fairchild, Dumas kit. Shown below right.
- Henry Smith III shared his Cessna 182 that is powered with a Power 25 engine. Henry has replaced the struts with his own design, and reinforced the nose wheel. Shown Bottom left.

**Members in Attendance:**

Joni Whitsitt	John Anderson	Gary Norman
Mike Costello	Mike Fox	Ted Broberg
Dick Baxter	Rob Askegaard	Terry Broberg
Charles Siegfried	Fred Hesse	Ryan McMinimy
Ralph Siegfried	Gregory Jurek	Ross Thomas
John Rittenhouse	Joel Jones	Maxine Thomas
Kevin Koch	Henry Smith III	Randy Wilbur
Robert Davey	Mike Gaczowski,	Jesse Calleros
Richard Morley	Bruce Gale	Juan Alvarado Jr.
Larry Koch	Dennis Anderson	David Miller



General Meeting Minutes, March 7, 2017. (Continued)**Opportunity Drawing:**

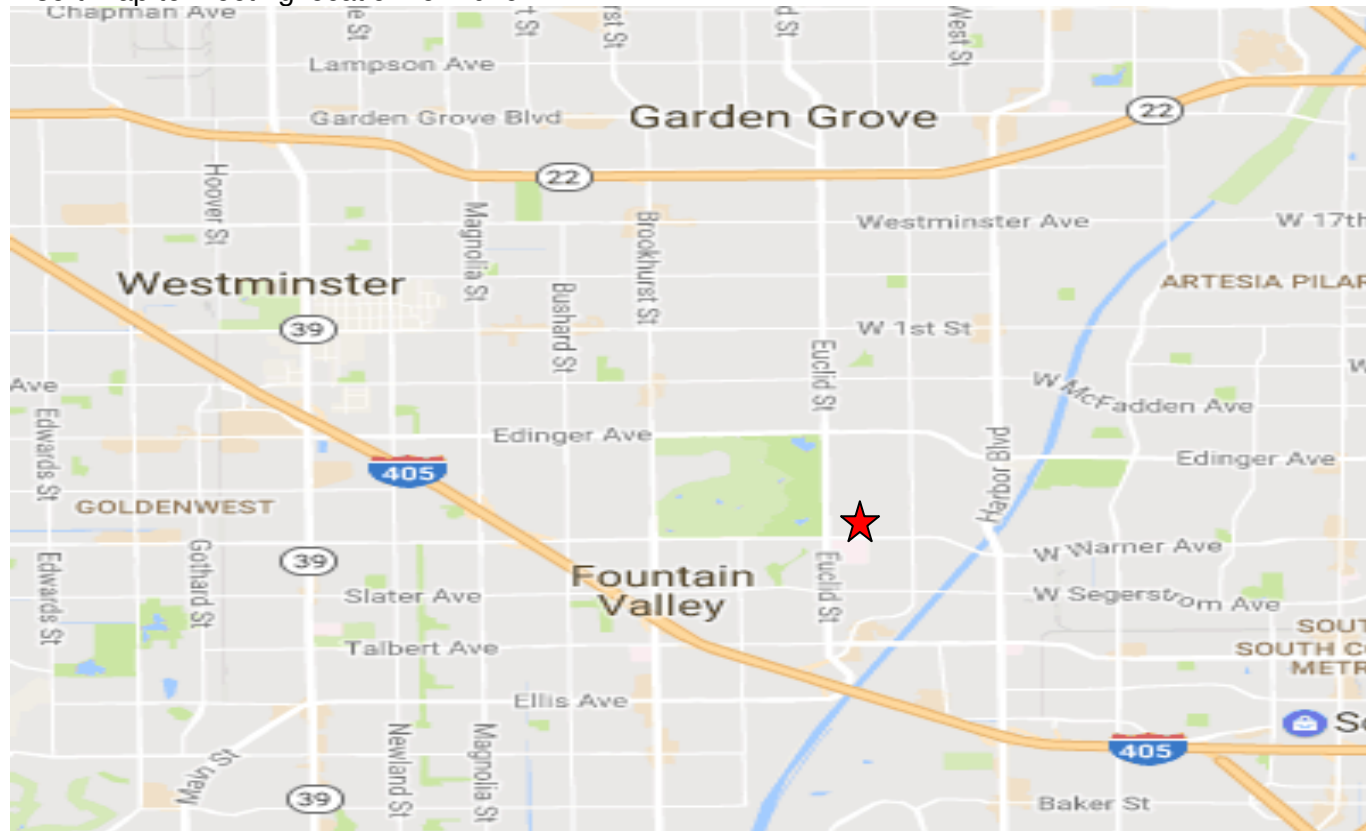
<u>Item:</u>	<u>Winner:</u>
4 bladed prop, electric motor,	Fred Hesse
Axi e-motor	Kevin Koch
Glue	Jesse Callaros
Hobby People small electric motor	Dennis Anderson
eFlite motor	Greg Jurek
Electric motor with prop and speed control	Bruce Gale
Wing and small hand launch glider	Ryan McMinimy
Hobby People electric motor	Joel Jones
eFlite 60 electric motor	Henry Smith III
Electric motor	Mike Fox
Legends of the Air wooden plane kit	Dick Baxter

Meeting was adjourned at 9:00 PM. Respectfully, Bruce L. Gale, HSS Secretary

April 4, 2017 Meeting Announcement

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 \$8.99. Fountain drinks are an additional \$1.59, 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. The location map is also shown below.

Insert map to meeting location for 2016.



Civil Air Patrol Model Flying Class

On Saturday March 4, HSS hosted Civil Air Patrol Squadron 68 at our Fairview flying field. Leaders Joel Jones and Gregory Jurek were group leaders, and did most of the instruction. This is the first of what we hope is many opportunities for HSS and the CAP to work together to promote flying education to younger enthusiasts. This activity occurred 3 days before the CAP leaders gave their presentation to our HSS General Meeting held on 7 March (as reported in the minutes for that meeting, above). Unfortunately, we do not have names for all of the student pilots.



Civil Air Patrol Model Flying Class (Continued)



Fairview Park Runway Status

As many have noticed, the recent rains have stimulated the growth of weeds on our runway to the point that it is difficult to use. Henry Smith III has been working both personally on the runway, and with the City of Costa Mesa to return the entire runway to its summertime condition. Henry has mowed about half of the runway, but the remainder has weeds well over knee high. Here is Henry's explanation of the problems the club is dealing with. Thanks, Henry, for your report. – Ed.

Many fliers have made recent comments about the condition of the field in Fairview Park. I agree the field is in pretty poor condition. Everyone should be aware that the field belongs to the city and we use the field under rules contained in various agreements between HSS and the city. We are not allowed to change anything at the field without written permission from the city. In addition we are not allowed to do anything until two weeks have passed since the last measurable rainfall. Any cuttings we rake up must be bagged and removed from the park. We can put the bag of clippings in the trash in the city's yard on Placentia near Estancia High School.

The two week requirement has allowed the weeds to grow to unprecedented heights. We finally managed to mow part of the field on 15 and 16 March. We went over most areas more than once in order to make the field as useable as possible. The field is now much better but we have a long way to go. The HSS Steering Committee will begin planning to bring the field up to the best condition possible. Among things we are or will be doing are:

1. A field cleanup day to rake and bag clippings. At this time we can use shape shovels to cut off the larger sized stumps in the runway. When this is done we will need to bag and remove everything we rake or cut.
2. Rent some more powerful equipment to cut the very tall weeds. If this is done we will still need club member to help bag and remove the cuttings.
3. Consider hiring a landscape contractor to cut down and remove some of the taller weeds in order to bring the field back to historical boundaries.
4. Hold discussions with the city about using weed spray to control growth in the coming months.

While the above is in progress all members and non-members should be aware of the following:

- a. Do not use your private power tools (mower, weed whacker, etc) to perform and work in the park unless the club has written permission to do so.
- b. If any weeds are cut with hand tools, bag and remove the cuttings.
- c. Do not use any chemicals on anything growing in the park. If we are allowed to spray at some point, we must use a city approved and licensed contractor.

Henry A. Smith III - HSS Vice President



The above photo shows the area that Henry has mowed, and also the remaining weeds that are knee high. The tall weeds at the right hand side are near the center of the original runway. Still lots of cutting to do.



AMA Operational Rules For UAV/Drones

The AMA has updated their document No.550 which deals with their rules on model aircraft that use First-Person-View. Further down in this newsletter is a City of Costa Mesa information flyer on drones. It would be well worth our while to introduce the city to this document so they don't invent something unreasonable.



Document #550
Check www.modelaircraft.org for updates.
072616.1626

Unmanned Aircraft Operation Utilizing First-Person View

1. Definition of terms

Please refer to Page 3, which contains an alphabetical listing of the definitions of the terms that are used in this document.

2. FPV operations, requirements, and limitations

- a) AMA FPV novice pilots must first be capable of flying their FPV sUAS without utilizing FPV.
- b) AMA FPV novice pilots undergoing training with an experienced AMA FPV pilot should use a buddy-box system if practicing at a low altitude (below 100 feet) or practice at a safer, higher altitude when no buddy-box system is an option.
- c) AMA FPV pilots should perform preflight inspections of their FPV sUAS video, electronic control, power, and mechanical systems before each flight.
- d) All FPV flights require an AMA FPV pilot to have an AMA FPV spotter next to him or her maintaining VLOS with the FPV sUAS throughout its flight.
- e) The AMA FPV pilot must brief the AMA FPV spotter on the FPV spotter's duties, communications, and hand-over control procedures before FPV flight.
- f) The AMA FPV spotter must communicate with the AMA FPV pilot to ensure that the FPV sUAS remains within VLOS, warning the FPV pilot of approaching aircraft, and when avoidance techniques are necessary.
- g) During an FPV flight, the FPV spotter must be prepared to acquire the transmitter/control from the FPV pilot and assume VLOS control of the sUAS at any time safe operation of the flight is in question.
- h) If an FPV pilot experiences a safety issue that does not appear to be a brief glitch, he or she must abandon FPV mode and fly VLOS.
- i) FPV pilots must perform an RC test flight without FPV by conventional VLOS after installing a new FPV system and/or after any changes or repairs to essential flight systems.
- j) sUAS *exceeding* 55 pounds cannot use an FPV system for FPV flying.
- k) FPV pilots can control the flight path of FPV sUAS with a standard gimbal RC transmitter or a smartphone, tablet, smartwatch, laptop, or proprietary controller with AP mission software using RF telemetry modules for the control link.
- l) sUAS must operate on frequencies approved by the FCC for wireless video, radio control, and ground station telemetry systems. Some systems, because of power output or Amateur Band frequencies, will require FCC licensing (AMA document #580 & #590).

General rules for sUAS operations

- a) AMA sUAS flights must be conducted in accordance with the AMA National Model Aircraft Safety Code, AMA supplemental rule documents, flying site specific rules, FAA regulations, and any laws relating to sUAS operations (AMA document #105).
- b) AMA pilots must fly their sUAS strictly for hobby/recreational use.
- c) AMA pilots, when flying sUAS either manually or utilizing FPV, stabilization, or autopilot systems for automated flight, must at all times maintain the sUAS within VLOS.
- d) AMA pilots must provide prior notification of their intent to fly an sUAS to an airport operator and/or air traffic control tower when they will be flying within 5 miles of an airport.
- e) sUAS must not be flown in a careless or reckless manner or at locations where sUAS activities are prohibited, or in close proximity to crowds of people at outdoor sporting events, music festivals, political gatherings, firework displays, or beaches (see section 3b).
- f) All AMA pilots shall avoid flying sUAS directly over unprotected people, animals, vessels, vehicles, or structures so as not to endanger the life and property of others who are not directly involved in the sUAS activity.
- g) All sUAS flights must yield right-of-way to man or other unmanned aircraft.
- h) All AMA pilots or their spotters must monitor the airspace surrounding sUAS while in flight. If aircraft, people, or property become endangered, pilots must maneuver the UAS to avoid a collision (AMA document #540-D).



AMA Operational Rules For UAV/Drones (Continued)

ACADEMY OF MODEL AERONAUTICS

Document #550

Check www.modelaircraft.org for updates.
072616.1626**3. Range, separation, altitude, weight, and speed**

AMA, unless expressed written permission is obtained from the individual property owner(s) or manager(s).

- a) **Range**—flight range of sUAS is limited to VLOS of the AMA pilot/operator.
- b) **Separation**—AMA pilots should maintain the flight path of their sUAS at safe minimum separation distances from pilots, helpers, spectators, vehicles, and structures as follows:
 - 4.4 lbs. or less and Park Pilot model aircraft not exceeding 2.0 lbs. should maintain a minimum separation of 10 ft. from pilots/helpers, 25 ft. from spectators, and 50 ft. from vehicles/structures.
 - over 4.4 lbs. should maintain a minimum separation of 25 ft. from pilots/helpers, 60 ft. from spectators, and 80 ft. from vehicles or structures.
- c) **Altitude**—Maximum altitude of sUAS is limited to 400 ft. above ground level (AGL) when within 5 miles of an airport.
- d) **Weight**—sUAS are limited to a maximum flying weight of 55 pounds, unless in compliance with AMA's Large Model Airplane UAS program (AMA document #520-A).
- e) **Speed**—sUAS aircraft utilizing an onboard autopilot system for automated flight are limited to a maximum speed of 100 mph.

4. Recommendations and information

- a) AMA FPV novice pilots should consider using a cockpit-view flight simulator to become accustomed to FPV flight.
- b) AMA FPV pilots should consider using a programmable autopilot for their FPV sUAS to provide a return to launch (RTL) or failsafe landing feature in the event of a loss of control, video signal, or VLOS.
- c) When purchasing FPV operational systems, always try to select quality equipment from reputable dealers, ensure for compatibility with other onboard systems, and install components according to manufacturers' instructions.

5. Privacy protection safeguards

- a) **Laws: Federal, State, and Local**—AMA members must be aware of and observe any laws regulating the ownership and operation of sUAS.
- b) **Cameras/sensors**—the use of imaging technology for aerial surveillance with radio-controlled sUAS capable of obtaining high-resolution photographs and/or video, or using any types of sensors for the collection, retention, or dissemination of surveillance data or information on individuals, homes, businesses, or property at locations where there is a reasonable expectation of privacy is strictly prohibited by the

Academy of Model Aeronautics, Inc.
Advanced Flight Systems Committee | amaflightsystems@gmail.com

2 of 3



AMA Operational Rules For UAV/Drones (Continued)



ACADEMY OF MODEL AERONAUTICS

Document #550

Check www.modelaircraft.org for updates.
072616.1626

Definitions of terms

A

AMA FPV novice pilot

An AMA member learning to fly FPV with an experienced AMA RC pilot providing flight instruction and serving as an FPV spotter.

AMA pilot/operator

An AMA member who is capable of manually operating an RC transmitter to control a sUAS flight path within its safe intended flight envelope without losing control or having a collision.

AMA FPV pilot/operator

An AMA pilot who is capable of maintaining stable flight of an FPV sUAS within its intended flight envelope while flying by FPV without losing control or having a collision.

AMA FPV spotter/observer

An experienced AMA RC pilot who has been briefed by the AMA FPV pilot on the tasks, responsibilities, and procedures involved in being a spotter, is capable and mature enough to perform the duties, and is able to assume conventional VLOS control of the FPV sUAS.

Automated Flights

Use an autopilot system to control the flight path of a sUAS. The level of automation/autonomy does not totally remove the AMA pilot from control capability since the pilot has VLOS of the sUAS and can activate and deactivate the automation.

Autopilot systems

Used to stabilize and control the flight path of a sUAS without assistance from a pilot. The autopilot system incorporates a microcontroller, inertial measurement unit, GPS receiver, and an altitude sensor. A laptop with mission software allows the pilot to program and save navigable waypoints to the autopilot system's memory for automated flight.

B

Buddy-box system

A flight-training system that has one transmitter operating as the master controller, while a second transmitter is linked/slaved to it, allowing dual control of a sUAS. The operator of the master transmitter allows one or the other transmitter to control the sUAS. Although this system is commonly used for training novice fliers, it is also useful in situations where an experienced pilot may have an increased likelihood of needing a second pilot's assistance in maintaining control of the sUAS. It might also be helpful in assisting pilots with physical limitations, flying in congested environments, during times of reduced visibility, or anytime during FPV flight when a timely transfer of control might be beneficial.

E

Essential flight systems

Any systems or components necessary to maintain stable flight within a model aircraft's flight envelope. (This includes primary RC systems and any stabilization or gyros required to maintain stability and heading in certain types of sUAS that would be uncontrollable/unstable without their use.)

F

First-Person View

Refers to the operation of a radio controlled (RC) sUAS using an onboard camera's cockpit view to orient and control the aircraft.

Flight envelope

The range of airspeeds, attitudes, and flight maneuvers that an sUAS can safely perform/operate for its intended use.

FPV aircraft

An RC sUAS equipped with a video transmitter to send real-time video images from an onboard camera to a ground-based receiver for display on a pilot's video monitor/goggles. (FPV sUAS types include: fixed-wing, rotary-wing, and multirotor platforms.)

M

Model Aircraft, small Unmanned Aircraft Systems (sUAS), Unmanned Aerial Vehicles (UAV), Remotely Piloted Aircraft, Multirotors (MR), and Drones

Remotely controlled and/or autopilot controlled unmanned aircraft capable of sustained flight in the atmosphere. The small sUAS have a maximum weight of 55 pounds and micro mUAS 4.4 pounds.

Multirotor

A remote-controlled model aircraft whose lift is derived from the aerodynamic forces acting on one or more powered rotors turning about vertical axes and includes tricopters, quadcopters, hexacopters, octocopters, etc.

N

Nonessential flight systems

Any systems or components that are not necessary to maintain stable flight within the sUAS flight envelope. This includes autopilot or stabilization systems that can be activated and deactivated in flight by the pilot without affecting stable flight.

P

Park Pilot aircraft

A remote-controlled mUAS limited to 2 pounds in weight, speeds of less than 60 mph, and designed for park flying in small urban area locations.

R

RC test flight

Requires an AMA pilot to manually operate an RC transmitter to control a sUAS flight path and determine if the sUAS is capable of maintaining stable flight within its safe intended flight envelope.

V

Visual line of sight (VLOS)

Distance at which the pilot/operator is capable of maintaining visual contact with the sUAS and determine its orientation and altitude without enhancements other than corrective lenses.



2017 Consolidated Schedule of RC Events

The following activities are planned by this group known as The Inland Valley Clubs, located east of Orange County. Part of the Southern California Soaring Clubs (SC2) competition schedule is included. The list has been expanded to include a number of full sized aircraft events.

- **Saturday, April 1**
 - **...Saturday, April 8th**
 - **...Saturday April 8th**
 - **...April 8/9th**
 - **...Sunday, April 9th**
 - **...Saturday, April 22nd**
 - **...Saturday, April 22nd**
 - **...Sunday, April 30th**
 - **...Saturday-Sunday May 6-7**
 - **...Wed.-Sun. May 10-14**
 - **...Saturday May 13th**
 - **...May 12/13/14th**
 - **...Saturday, May 20th**
 - **...Sunday, May 21st**
 - **...Sat-Sun May 20/21st**
 - **...Fri- Sun May 19-21**
 - **...Saturday June 10th**
 - **...Saturday, June 10th**
 - **...Saturday, June 10th**
 - **...Sunday, June 11th**
 - **...Saturday, June 17th**
 - **...Saturday, July 1st**
 - **...Saturday, July 8th**
 - **...Saturday August 5th**
 - **...Saturday August 12th**
 - **...Sunday, August 13th**
 - **...Saturday, September 9th**
 - **...Saturday, September 9th**
 - **...Saturday, September 16th**
 - **...Saturday, September 16th**
 - **...September 22/23/24th**
 - **...Saturday September 23rd**
 - **...Sunday, October 8th**
 - **...Saturday, October 14th**
 - **...October 21/22nd**
 - **...Saturday, October 28th**
 - **...November 4/5th**
 - **...Saturday, November 18th**
 - **...Saturday November 25th**
 - **...Sunday, December 10th**
- Riverside Airport Air Show. See www.riverairshow.com**
Hemet Model Masters Springtime Fun Fly
Menifee Valley Flyers Bomb Drop Competition
US Scale Masters Qualifier/School at Gilman Springs RCF
Chino Flyers Trainer 40 and Club 40 Pylon Races
Gilman Springs RC Flyers "Dawn Patrol/Golden Age" Event
Victor Valley RC Flyers Warbirds Pylon Race
SC2 Soaring Event at the SCAMPS Field (next to RRCC Field)
Planes of Fame, Chino. Annual Air Show. See www.planesoffame.org
Collings Foundation, Wings of Freedom. Lyon Museum www.cfdn.org
Menifee Valley Flyers Spring Swap Meet
Hemet Model Masters "IMAC Event"
Gilman Springs RC Flyers Spring Swap Meet
Victor Valley RC Flyers SC2 Glider Event
Riverside RC Club Quickie 500 Pylon Race
DC-3, C-47 Fly-in. Flabob Airport. www.flabobdc3flyin.com
Menifee Valley Flyers Electric Glider Competition
Victor Valley RC Flyers Fun Fly
Riverside RC Club Classic Pattern Get Together
Chino Flyers Trainer 40 and Club 40 Pylon Races
Corona RC Club Fun Fly
Victor Valley RC Flyers Combat Event (Fly Till You Die)
Gilman Springs RC Flyers Summer Night Fly
Menifee Valley Flyers Members Appreciation Night Fly
Menifee Valley Flyers Summer Swap Meet
Chino Flyers Trainer 40 and Club 40 Pylon Races
Hemet Model Masters Autumn Swap Meet
Victor Valley RC Flyers Warbirds Pylon Race
Gilman Springs RC Flyers "Warbirds Over Gilman Springs"
Victor Valley RC Flyers Tailhook Contest
Victor Valley RC Flyers IMAC Event
Menifee Valley Flyers Annual Poker Fly
Chino Flyers Trainer 40 and Club 40 Pylon Races
Gilman Springs RC Flyers Fall Swap Meet
AMA District 7 Pattern Championship at the RRCC Field
Corona RC Club Halloween Float Fly at Lake Perris
F3J Soaring Event at the SCAMPS Field (next to RRCC Field)
Gilman Springs RC Flyers Club 40 Pylon Race
Menifee Valley Flyers Fall Swap Meet
Chino Flyers Trainer 40 and Club 40 Pylon Races

March 19, 2017



Field Closed for Cross Country Event

The City of Costa Mesa is sponsoring a cross country run at Fairview Park on Saturday April 22. Therefore, our flying field will be closed from 8 AM until Noon.

Safety Meeting at Fairview Park Flying Field

On Saturday March 11, 2017 a safety meeting was held for all HSS members and non-members. It started at 9 AM and was conducted by Greg Stone, AMA Assistant Vice President for Area X (shown at right). Joni Whitsitt provided coffee and donuts for about 40 attendees. Mike Gaczowski labeled membership cards of everyone in attendance.



11th Annual Warbirds Classic

Scale Squadron is featuring the 11th annual Warbirds Classic, June 9-11 at BlackStarr field. Note the rubber powered free flight mass launch on Saturday evening.

ATTENTION SCALE MODELERS*PILOTS*FANS!

Tentative Dates. Please check our website for updates and details.
Pre-Event Registration starts in February on RC Flight Deck

ENTRY FEE: \$25.00/Pilot (Scale Aircraft ONLY)
Saturday Night ON-SITE Banquet:
\$25.00/person

Rubber Powered FF Mass-Launch Sat Eve.
Dry Camping: FREE
Prizes and Awards
Food Available - OCMA Fund Raiser

Pre-Registration: RCFlightDeck.com

Event Location: OCMA BlackStarr Field
5305 Santiago Canyon Road
Follow Blue Diamond Road to the end
Field GPS Coordinates:
33deg 46'18.07 N
117 deg 41'52.79 W
<http://www.flyocma.com/Directions.htm>

More INFO: scalesquadron.com



Orange County Fair Imaginology

Every year HSS participates in the OC Fair Imaginology event. Here is the initial announcement. All members are invited to participate in demonstrations and static displays. Contact Joni Whatsitt to help out.



OCFAIR
IMAGINOLOGY
◦ FULL S.T.E.A.M. AHEAD ◦

 **Friday, April 21: 9 am - 3 pm**
Saturday, April 22: 10 am - 5 pm
Sunday, April 23: 10 am - 5 pm

IMAGINOLOGY: Encouraging young people to explore, discover and connect with Science, Technology, Engineering, Arts and Mathematics (STEAM)

Imaginology is a free three-day, family-friendly event featuring S.T.E.A.M.-related exhibits, hands-on activities and workshops for all ages, contests, entertainment, food and more.

We are inviting organizations like yours and individuals to share their work or hobby and educate our youth as a Feature Demonstrator. The participation of crafters, hobbyists, artists and educators contribute greatly to the success of Imaginology. This is an exceptional opportunity to have fun, interact with people and promote your craft or hobby.

To learn more about Imaginology go to ocfair.com/steam.

WE HOPE YOU WILL JOIN US!

DEMONSTRATOR APPLICATION

For additional information contact Chris at (714) 708-1553 or cgunst@ocfair.com

This annual non-profit educational event is sponsored and underwritten by the OC Fair & Event Center



HSS Membership – Renew Before End of March 2017

Our 2017 HSS membership enrollment season is in full swing. Note that the new membership rate of \$25 per year is now in effect. PayPal will no longer be accepted as the cost and inconvenience did not justify the service. The latest membership application, dated 16 Jan 2017, 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 16 of this newsletter.

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.

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 is on our web site.

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

SC2 Competition Schedule for 2017

Jim Sonnenmeier has provided the following tentative schedule for 2017. Several new clubs may be added. All dates will be Sundays unless otherwise specified.

February 26 – Hemet Model Masters - *Location:* Intersection of Warren and Simpson Road, Hemet.

March 19 – Silent Wings Soaring Association (SWSA) – www.silent-wings.org

April 30 – Riverside RC Club – Perris - www.riversidercclub.org

May 21 – Victor Valley RC Flyers (VVRFCF) – www.vvrcf.org

June 25 – Harbor Soaring Society (HSS) – www.harborsoaringsociety.org

July ? – Inland Soaring Society (ISS) – www.glideiss.us

August?

September?

October ?– Torrey Pines Gulls (TPG) – www.torreypinesgulls.org

November ?– Rain Date

To be added:

Thousand Oaks Soaring Society (TOSS) – www.toss.freesevers.com

Big Bear? Palomar? Bakersfield?

Gone for good?

Soaring Union of Los Angeles (SULA) – sula.club.org

Downey Soar Heads (DSH)



SC-2 Competition Results

The results of the second SC-2 soaring competition are shown below. This event was hosted by Silent Wings Soaring Association (SWSA) and held at their Fish Canyon facility on March 19.

SC2 Contest # 2						Hosted By SWSA						Normalized Sort				Contest Entries				
Fish Canyon Field, Azusa, CA March 19, 2017						Contest Director: Frank Corsaro Scorekeeper(s): Les Ward,Tom Trivitt										29				
Number Of Pilot Scores Entered →						29		29		29		29								
Thermal Duration						Round 1, 7 mins.			Round 2, 8 mins.			Round 3, 9 mins.			Round 4, 10 mins.			Overall		LSF
Place	PID	Pilot	Club	Class	L	T1	L1	S1	T2	L2	S2	T3	L3	S3	T4	L4	S4	Overall	Norm	Points
1	2	Khani, Ali	SULA	E	W	6.59	93	994.2	8.00	97	998.5	9.00	81	990.5	9.57	64	977.3	3960.5	1000.0	2900.0
2	145	Reagan, Mike	TOSS	E	W	7.01	34	964.7	8.00	58	979.0	9.01	97	996.7	10.02	86	989.8	3930.3	992.4	2778.7
3	446	Fillce, Gary	TOSS	Res	W	7.00	57	978.5	8.02	84	988.0	8.59	93	994.7	10.01	37	966.9	3928.2	991.8	2678.0
4	147	Kindrick, Keith	SWSA	E	W	7.02	54	972.5	8.01	71	983.5	9.01	58	977.2	10.01	91	993.9	3927.2	991.6	2578.1
5	1	Lee, Mike	ISS	E	W	7.03	57	971.7	7.58	51	971.5	9.01	89	992.7	10.00	58	979.0	3915.0	988.5	2471.3
6	129	Pearson, Rick	VVRC	E	W	7.02	75	983.0	7.58	30	961.0	9.00	88	994.0	9.52	65	969.8	3907.9	986.7	2368.1
7	202	Hess, Stephan	TPG	I	W	7.03	39	962.7	7.56	50	967.1	9.02	59	976.0	10.00	65	982.5	3888.3	981.8	2258.1
8	111	Gomez, Manny	ISS	E	W	7.00	71	985.5	8.01	61	978.5	8.59	0	948.2	9.56	18	952.7	3864.9	975.9	2146.9
9	5	Trivitt, Tom	ISS	E	W	7.00	0	950.0	7.59	0	948.0	9.01	75	985.7	10.00	0	950.0	3833.8	968.0	2032.8
10	107	Fillce, Gary	TOSS	E	W	5.57	58	836.5	8.01	87	991.5	8.59	76	986.2	10.00	56	978.0	3792.3	957.5	1915.0
11	121	Le, Tuan	HSS	E	W	7.01	84	989.7	8.02	37	964.5	9.03	0	944.7	8.58	0	851.8	3750.8	947.1	1799.4
12	106	Dora, John	ISS	E	W	7.00	0	950.0	5.47	72	722.8	8.57	0	944.7	9.56	92	989.7	3607.2	910.8	1639.4
13	114	Hallford, Phillip	SWSA	E	W	7.06	79	975.9	7.59	73	984.5	4.30	21	485.5	10.02	58	975.8	3421.8	864.0	1468.8
14	425	Higgins, Walter	TOSS	Res	W	6.58	63	977.0	8.02	62	977.0	3.38	80	423.5	10.02	76	984.8	3362.4	849.0	1358.4
15	139	Stewart, Ed	ISS	E	W	6.59	97	996.2	2.42	71	356.1	8.56	91	988.5	10.02	82	987.8	3328.7	840.5	1260.7
16	219	Dona, Alberto	HSS	I	E	7.07	0	934.2	8.01	0	948.0	5.42	53	628.2	8.28	0	804.3	3314.7	836.9	1171.7
17	303	Tau, Manny	UND	S	W	6.49	0	925.1	6.52	0	815.4	9.02	91	992.0	4.34	19	443.3	3175.9	801.9	1042.4
18	433	Thomas, Ross	HSS	Woody	W	4.00	45	565.4	5.05	0	603.6	8.58	27	960.0	9.54	36	958.5	3087.5	779.6	935.5
19	146	Deckman, Mike	SWSA	E	W	6.59	84	989.7	8.01	28	962.0	7.41	0	811.0	2.14	0	212.2	2974.9	751.2	826.3
20	103	Townsend, Craig	SULA	E	W	6.59	98	996.7	5.55	0	702.6	7.33	79	836.4	2.53	0	273.9	2809.7	709.4	709.4
21	203	Stanton, Steve	ISS	I	W	6.59	0	947.7	7.51	0	932.2	2.25	0	255.1	6.28	0	614.3	2749.4	684.2	624.8
22	302	Aber-Song, Ed	EDSF	S	E	3.15	40	461.1	4.26	0	526.5	9.12	0	928.9	8.39	0	821.8	2738.2	691.4	553.1
23	210	Bacani, Alvin	ISS	I	W	7.00	0	950.0	7.59	57	976.5	2.21	30	263.1	4.48	77	494.5	2684.1	677.7	474.4
24	424	Pearson, Rick	VVRC	Res	E	6.57	0	943.2	8.02	0	946.0	3.38	80	423.5	0.00	0	0.0	2312.8	584.0	350.4
25	100	Loredo, Javier	ISS	E	W	4.20	0	588.1	4.47	64	600.0	6.06	0	643.9	2.29	0	235.9	2067.9	522.1	261.1
26	306	Smith, Paul	ISS	S	W	6.57	0	943.2	4.00	0	475.0	0.00	0	0.0	4.35	0	435.4	1853.6	468.0	187.2
27	307	Summers, Sean	ISS	S	E	1.07	0	151.5	3.22	0	399.8	6.59	0	737.1	2.15	0	213.8	1502.2	379.3	113.8
28	405	Corsaro, Frank	SWSA	Woody	W	3.26	0	466.0	1.52	63	253.2	3.00	0	316.7	3.00	0	285.0	1320.8	333.5	66.7
29	402	Loredo, Javier	Res	W		6.59	58	976.7	0.00	0	0.0	0.00	0	0.0	0.00	0	0.0	976.7	246.6	24.7

Red Bull Air Races at San Diego

The Red Bull Air Races are coming to San Diego on April 15-16. The link below takes you to the web site that gives details, location and ticket information.



<https://www.universe.com/events/general-admission-weekend-pass-april-15-16-tickets-0FR96Q>



Plane Rap Archives

Thanks to John Brown, a previous editor of Plane Rap, we have found out that four recent issues were not published, so we won't list them as missing from our Plane Rap newsletter archives. January, July, and December of 2000, and January of 2001 are non-existent. Again, if any one has any part of the issues listed below, we would love to add them to our archives (or at least a copy of what you have).

1964 through 1983: All issues missing.	1994: Nov missing.
1984: Jan through Sept and Nov missing.	1995: Aug missing.
1985: June missing.	1996: Feb, June missing
1986: May missing.	1999: Dec missing.
1987: Feb missing.	

Plane Rap issues from 1984 to present are maintained by our Secretary Bruce Gale. That is 32 years of HSS history. These archives are open to all members. Copies can be made upon request, or issues may be checked out for temporary use. If you wish for access to any issues, contact Bruce Gale as shown on the last page of this newsletter.

Full Sized Aircraft Events

Our president, Joni Whitsitt, is suggesting the following full sized aircraft activities might be of interest to our members.

April 1, 2017 Riverside Airport, Air Show; Aerobatics, antiques, war birds, flybys, static displays, classic care show, military vehicle show, military vendors, Riverside Airport, 951-826-5311. or riverairshow.com

May 6-7, 2017 Planes of Fame, Chino, CA. having their yearly air show. planesoffame.org Order tickets on line. 8am to 5pm each day.

May 10 to 5-14, 2017 Collings Foundation, Wings of Freedom Tour. Lyons Museum, Santa Ana. B-17 Flying Fortress, B-24 Liberator, P-51 Mustang, B-25 Mitchell. www.cfdn.org or 800-568-8924

May 19-21, 2017 Flabob Airport, Riverside, CA. DC-3 and C-47 Fly-in. flabobdc3flyin.com (my favorite airport, good food at the airport restaurant.). The EAA Chapter 1 is located at this airport.

Interesting Links

Jim Sonnenmeier has provided some interesting internet links.

First is an extensive photo essay that features the largest aircraft in the world. It is the AN-225 Mriya, which was designed in USSR and manufactured by Kiev Mechanical Plant in 1988. Most of us have seen photos, but this is an exceptional collection.

<http://gelio.livejournal.com/193025.html>

Next is a large group of photos showing a free flight competition on a frozen lake. Sure makes you appreciate Southern California.

https://photos.google.com/share/AF1QipNDzysENRUXekXjIGR9iDQzRlkl_t0IVw0s2W2fP0Z-spJ9GAK6IHGRHsVWptBv1Q?key=VmZiRTJPOS1OQUE4SUpfZy05a21aY0tyWWdSRzln

There are indications (see next page) that the City of Costa Mesa may develop their own Drone Regulations. Pasadena is already starting on theirs, as evidenced in the following link.

<http://www.pasadenanow.com/main/public-safety-committee-will-consider-new-local-regulations-for-drones/#.WMoCQjsrLb0>

Thanks Jim, for your inputs. - Ed.

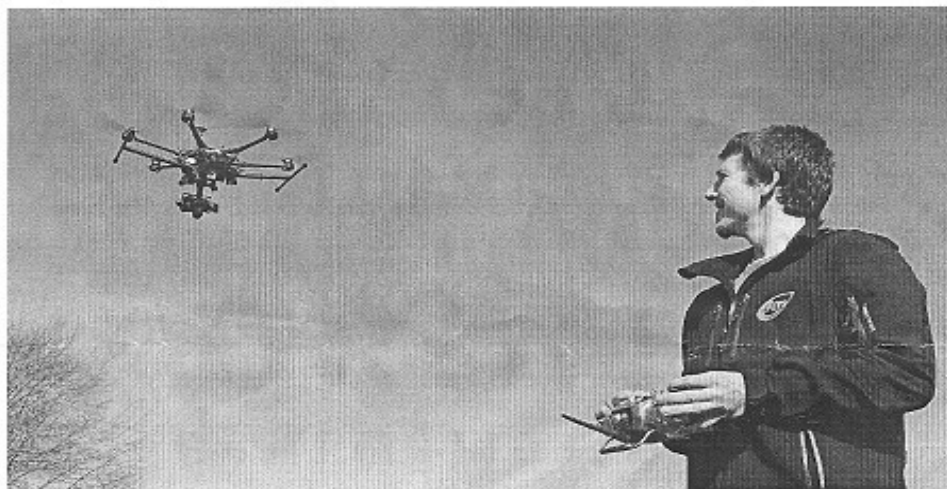


City of Costa Mesa Position on Drones

The city of Costa Mesa is developing concerns about drones, and has published the following information.

CITY OF COSTA MESA**DRONE
INFORMATION**

The only City facility where flying a drone is allowable is at the Fly field in Fairview Park.

**Rules & Requirements for Interested Parties Wishing to Operate a Drone**

- Pilot must be an active AMA (Academy of Model Aeronautics) member or have a current homeowners/personal liability policy specifically covering model aircraft operation with a minimum limit of \$500,000. Visit: www.modelaircraft.org
- Pilot must apply for and maintain a City issued model aircraft permit. Visit: www.costamesaca.gov
- Pilot must only fly their device at the approved location, which is at the fly field at Fairview Park. See onsite map for specifics.



Costa Mesa Parks &
Community Services
(714) 754-5300
www.costamesaca.gov

**General Information In
Regard to Drones**

- Drones are covered under the AMA membership as long as they aren't flown for commercial purposes. This does cover use at Fairview Park.
- Fairview Park is a public flying site for model aircraft. The City of Costa Mesa's Model Aircraft Flying Regulations for Fairview Park defines a model aircraft as, "all forms of radio controlled gliders, electric motor gliders, electric powered model airplanes, electric helicopters.
- No aircraft may be flown over any vernal pond, nearby school, parking area or residential area.
- All pilots are encouraged to follow all rules, communicate openly and share the airspace with all other pilots.



2017 City Flying Permits Available December 1, 2016

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 jpg file of their favorite plane should contact Rob, or your editor. Phone and E-mail contact information are shown on the last page of this newsletter.



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.

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.

**REMOTE CONTROL
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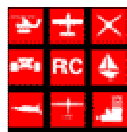
Remote Control Hobbies stores carry a wide selection of the newest **RC Cars and Trucks, RC Airplanes and Helicopters, RC Drones and Quads** and all of their RC Parts and Accessories. Our RC hobby shops value quality and feature hobby grade RC vehicles. Your local RC Hobbies is here to keep you running.

www.rc-hobbies.com/orangecounty<https://www.facebook.com/RemoteControlHobbiesOrangeCounty>**ROB'S R/C HOBBIES****Sales / Parts / Repair**

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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

HSS Sponsors (Continued)**HOBBY CLUB****"Only the best from around the World"****Alberto Dona**

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MEMBERSHIP APPLICATION 2017

Harbor Soaring Society

AMA Chartered Club #128 - AMA's Oldest Chartered Soaring Club
P.O. Box 1673 Costa Mesa, CA 92628



I understand that by applying for membership in the Harbor Soaring Society I must be a current member of the AMA (Proof of status required, may be photocopy of membership card or AMA receipt of fees paid)

Name _____ AMA # _____

Address _____

City _____ State _____ Zip _____

Home Phone _____ Work Phone _____

Date of Birth _____ Email _____

- ☐ New Applicants (Without Name Tag) (all ages): \$25.00
☐ Adult Member (Renewal Without Name Tag) (19 years and older as of July 1st): \$25.00
☐ Junior Member (Without Name Tag) (19 years and under as of July 1st): \$10.00
☐ Family Member (Without Name Tag) (At Same Address): \$5.00
☐ Optional or Extra HSS Name Tag: \$15.00
☐ I hereby give my permission to publish my [Name], [Address], [Phone], [Email Address] in the monthly Newsletter. **Strike out those not to be published.** Note that the Newsletter is published on the club Website (<http://www.harborsoaringsociety.org>)
☐ I request a printed copy of the monthly Newsletter by U.S. Mail. Printing and Mailing: \$20.00/year

My primary interests in radio control flying are? Check all that apply. Show future interests with the letter F.

Thermal Duration Gliders _____	Slope Soaring Gliders _____	RES Gliders _____
Large Scale Gliders _____	Hand Launched Gliders _____	Electric Motor Gliders _____
Park Flyer Electric _____	Acrobatic Electric Planes _____	Scale Electric Planes _____
Electric Drones / Multi-rotor _____	Indoor Electric Planes _____	Electric Helicopters _____

In accordance with the Federal Equal Opportunity Act, this organization prohibits discrimination against anyone on the basis of race, color, religion, national origin, sex, marital status, age, individuals with disabilities or veterans. 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 for the following year. Applications for adult members submitted between July 1st and October 31st will pay a reduced rate of \$15.00 (name tags extra). A signature is required from all Harbor Soaring Society applicants, agreeing to comply with the current AMA Safety Code, the current HSS and Costa Mesa City General Field Rules, and FAA rules and regulations applicable to the flying of RC model Aircraft.

The undersigned attests that: I will operate my model using only radio frequencies for the control of fixed wing or multi-rotor aircraft, and/or data transmission, on equipment certified and approved for such use by the AMA, FAA or FCC as applicable. I understand that my failure to comply with the above restrictions will result in nullification of liability coverage for damages caused or claimed. I understand that my monthly newsletter will be delivered by E-mail unless the U.S. Mail request (shown above) has been selected.

SIGNATURE: _____ DATE: _____

Total Dues Owed and Attached: \$ _____

SIGNATURE OF CLUB OFFICER RECEIVING APPLICATION: _____

Revised: January 16, 2017 (FMH)



HARBOR SOARING SOCIETY OFFICERS FOR 2017

President	Joni Whitsitt	714-396-2523	whitsittjo@gmail.com
Vice President	Henry Smith III	714-322-6537	henry.smith.3@earthlink.net
Treasurer	Mike Gaczowski	949-632-1747	mgaczowski@cox.net
Secretary	Bruce Gale	949-394-3924	galebl@cox.net
Contest Coordinator	Bruce Schaefer	714-814-6412	metaterra@msn.com
Safety Officer	Jim Sonnenmeier	814-490-9957	jrs36psu@gmail.com
Alternate Safety Officer	Vincent San Filippo Jr.	714-791-5588	vincsfjr@gmail.com
Grounds Keeper	Ryan McMinimy	714-948-0942	hotshotviper@hotmail.com
Editor	Fred Hesse	714-963-5838	fhesse@socal.rr.com
Publisher	Fred Hesse	714-963-5838	fhesse@socal.rr.com
Club Photographer	Rob Askegaard	714-968-1973	rmaskegrd@gmail.com
Social Media Manager	David Miller	949-351-7047	davidjmiller949@gmail.com
Lead Flight Instructor	Ted Broberg	714-235-6430	tcbroberg@gmail.com

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 APRIL 4, 2017 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 SPECTACULAR
RAFFLE. SEE DETAILS AND INSTRUCTIONS TO LOCATION ON PAGE 5.
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**

