



# 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 in 1964.  
 Silver Leader Club since 2009, Gold Leader Club 2011-2013, 2015-2018.

June 2018

HSS IS NOW OVER 54 YEARS OLD!

Volume 55

**HSS is hosting the fifth SC-2 thermal duration glider competition on Sunday June 17 2018. Help is needed. See P.6-7.**

**NOTE: FIELD WILL BE CLOSED TO ALL OTHER FLYING FROM 7 AM TO 3 PM**

### Plane Rap Index

Check out the following articles:

- May 1, General Meeting Minutes. P.2-3.
- AMA and US Congress. P.3.
- Airplane Park in Costa Mesa. P.3.
- Dollar Tree Foam Challenge. P.4-5.
- Fairview Park Weather Station. P.5.
- HSS Membership Renewal. P.6.
- FAA Concern over Drones. P.6.
- SC-2 Competition Schedule. P.6.
- HSS SC-2 Competition. P.6-7.
- SC-2 Competition Results. P.8.
- Jerry's Jets. P.9.
- 2018 SAE Aero-Design. P.10-11.
- Jets Around the Field. P.12.
- Chino Air Show. P.13-14.
- Plane Rap Archives. P.15.
- Next Meeting Announcement. P.15.
- City Flying Permits for 2018. P.16.
- Invitation For Contributions. P.16.
- Ads and Services, For Sale. P.17.
- HSS Sponsors. P.17-18.
- HSS Membership Application. P.19.
- HSS Officer Contact Information. P.20.

### Coming Events and Soaring Competitions

June - August 2018

- Tuesday June 5, 2018. HSS general meeting, 7 PM. Round Table Pizza, 11095 Warner Ave. See P.15 for details and location.
- Sunday June 17, 2018. Fifth SC-2 soaring competition of the 2018 season hosted by HSS. See flyer on Page 6-7 of this newsletter.
- Tuesday July 3, 2018. HSS general meeting, 7 PM. Round Table Pizza, 11095 Warner Ave. See P.15 for details and location..
- Sunday July 15, 2018. Sixth SC-2 soaring competition of the 2018 season hosted by Inland Soaring Society at soccer field, Riverside.
- Saturday ?. 2018 Dollar Foam Design, build, Fly competition. See P.4-5.
- Tuesday August 7, 2018. HSS general meeting, 7 PM. Round Table Pizza, 11095 Warner Ave. See P.15 for details and location..
- Saturday August 11, 2018. National Model Aviation Day. OCMA Blackstarr field?



**May 1, 2018 General Meeting Minutes**

The meeting was opened at 7:10 PM, May 1, 2018, at the Round Table Pizza restaurant located at Warner and Ellis, Costa Mesa. Attending officers were Joel Jones, President; Mike Fox, Vice President; Henry Smith III Treasurer; Fred Hesse, Editor. Secretary Joni Whitsitt was absent, and will be substituted by Fred Hesse.

Joel began the meeting with the Pledge of Allegiance.

1. Joel complemented everyone for their participation in the Imaginology event held Friday April 13 – 15 at the Orange County Fairgrounds. There were about 45,000 visitors of which about 15,000 passed through the “Hangar” where HSS displays and demonstrations were held. A full size aircraft from Lyon Museum was not displayed, and unfortunately Knights of the Round Circle with their electric U-Control flying classes did not participate. The Aviation Studies group from Orange Coast College gave simulated flying lessons, and were very excited about participating again next year. They would like to put up a floor to ceiling safety net so a greater variety of models could fly. Joel suggested that getting permission from the Orange County Fairgrounds to conduct monthly indoor flying events at the “Hangar” could be popular with his Civil Air Patrol group. This topic will be addressed at the next Steering Committee meeting. John Anderson says that OC College put on a static display honoring military members.
2. Greg Stone, AMA Assistant Vice President for District X (California and other states) spoke on membership support of AMA in dealing with government legislative activities. Members blanketed their federal representatives with E-mails. The result is the maintenance of the ruling allowing model aircraft to fly in the national airspace.
3. Next, Greg brought up the new AMA Convention now scheduled for November 2 – 4 at the Fairplex facility in Pomona CA. The event will be greatly expanded with the use of a 105,000 square foot building for vendors and indoor demonstrations, and a vast increase in outdoor facilities including RC aircraft flying, drone racing, RC cars and trucks, a boat pond, and the availability of the largest garden railway in the world. Two improvements include conducting the convention prior to Christmas, and a 50% reduction in charges to participating vendors.
4. Greg commented that he has been formally nominated for AMA District X Vice President, and would appreciate our support.
5. Design, Build, and Fly (DBF) competitions for college engineering schools were discussed. Greg Stone has been intimately involved. See the article on Design, Build, Fly in this issue.
6. Joel is scheduling a Steering Committee meeting towards the end of May. Topics of discussion should be sent to Joel.
7. Ralph Siegfried announced that the City of Costa Mesa is planning to conduct “Concerts In The Park” similar to last year. These will be three evening events held at Fairview Park probably in July. Previously, HSS has maintained a booth featuring flight simulators and static display of models. This is a public service activity for HSS. Staff for the booth are needed. More information will be distributed as it becomes available.
8. Joel wants to have a Dollar Foam Design, Build, and Fly competition. Rules were discussed, and have been condensed into an article which follows in this newsletter. A draft copy will be sent to the Steering Committee and Greg Stone for review and finalization.
9. Fred Hesse suggested that in fairness, a Bent Wing Glider Competition be held for the benefit of our glider enthusiasts. Rules would be similar to those of the 2017 Bent Wing Glider event held 12 August 2017.
10. Show and Tell: John Anderson presented a history of model aircraft performance records.
11. Raffle: Sid Hood won the E-Flight 65 electric motor.

William Vincent II won the CAP Piper Cub.



**May 1, 2018 General Meeting Minutes (Continued)**

## 12. Members in attendance:

Ross Thomas	Ryan McMinimy	Mike Fox	Don Whittenberg
Rob Askegaard	Greg Stone	Chuck Herrington	Ted Broberg
Henry Smith III	Fred Hesse	Mike Costello	Sid Hood
Jeff Greene	John Rittenhouse	John Anderson	William Vincent II
Mike Gaczowski	Ralph Siegfried		

Meeting was adjourned 8:35 PM. Respectfully submitted, Fred Hesse, substituting for Joni Whitsitt

**AMA and US Congress**

The following article is courtesy of Jim Sonnenmeier. Thanks, Jim. - Ed.

Today, the House of Representatives passed the FAA Reauthorization Act of 2018 (H.R.4), a long-term reauthorization of the FAA. We are happy to share that Section 336, also known as the Special Rule for Model Aircraft, is included in this bill with meaningful refinements that we supported to help make it stronger. We especially want to thank the thousands of members who participated in our Call to Action in the last few weeks to let Congress know the importance of protecting our hobby. Your efforts during this critical time have made a significant impact.

While much of what we fought for was included in this bill, there are also some provisions that concern us. Rest assured - we will continue to work on improving FAA Reauthorization moving forward. Protecting our hobby is AMA's top priority and we will do everything possible to ensure your ability and freedom to fly.

Please remember there are several more steps in the process before FAA Reauthorization becomes law. The next step is for the Senate to consider its own version of FAA Reauthorization, and then both the House and Senate bills will be sent to a Joint Committee to hash out a final version of the legislation. This process could take months and we may ask for your help again during this time.

**"Airplane Park" in Costa Mesa**

DID YOU KNOW? Lions Park (aka 'Airplane Park') and previous to that 'Mesa Park' in Costa Mesa got its famed airplane in August of 1960. It was brought here from a military bone-yard in Tuscon, AZ by a local Vet who paid only \$1 for it! Shipping was extra! The plane is a 1950s era "Panther" jet used by the U.S. Navy. When it was first placed in the park it was still all metal, later on it was encased in concrete to protect kids. In 2013 the plane was renovated and given a new paint job by local vets and volunteers. On August 2, 2020 the plane will celebrate it's 60th Anniversary in the park! [#CostaMesa](#) [#USNavy#Jetfighter](#) [#AirplanePark](#) [#Veterans](#) [#KickTheTiresLightTheFires](#) . Facebook page <https://www.facebook.com/NewportBeachCostaMesa/>

Editors Note: Painting the aircraft was one of the community services performed by HSS members.



## Dollar Tree Foam Challenge for 2018.

HSS is entertaining the concept of having another Dollar Tree Foam Challenge this summer. This would be similar to what was held last year. Following is a draft form of suggested rules. If you have suggestions, contact Joel Jones ASAP since these rules will be finalized at the next Steering Committee meeting.

### Event Description:

HSS is planning a fun competition to design, build, and fly an original electric powered model of your choice. This event was first proposed by Kevin Koch in 2017. This year's event to be held at Fairview Model Airport on TBD day. Design rules, construction guidelines, and flight demonstration requirements are shown below. Have fun!.

### Potential Participants:

Most of electric flying HSS members.

### Previous Event:

First event was held 31 October, 2017, at Fairview Park. It was flown in two sessions, 8 to 11 AM, and 2 to 6 PM. The club provided donuts for the morning session and Subway sandwiches for the afternoon.

### Results:

Awards and photos are shown in December 2017 Plane Rap newsletter.

First Place:	Kevin Koch	\$50 Gift Certificate
Second Place:	Bill Sharkey	\$30 Gift Certificate
Third Place:	Larry Koch	\$20 Gift Certificate

### Rules:

Initial rules are shown on attached flyer. These were modified to allow use of two sheets of foam.

In an initial burst of enthusiasm, rules were suggested by members at the May 1st 2018 General Meeting. A draft version is shown below. These rules supersede any conflicting rules shown in flyer.

1. Event shall be held on Saturday of the middle weekend of July 2018 (July 7 or 14).
2. Two sessions will be held. 7:30 to 9:30 AM, and 6 PM to sunset.
3. Battery is limited to 3 cells in series. Capacity is unlimited.
4. Pilot will fly two complete circles of the flying field. (Boundaries to be posted?).
5. Flying ability (stability) to be assessed by judges.
6. Spot landing shall be attempted, and measured. Point of landing to be determined.
7. Score is total of two best flights. Number of attempts to be determined. Not clear if choice of flight time is allowed (Meaning morning vs afternoon).
8. Maximum weight is 300 Gms (10.6 oz).
9. Construction is limited to one sheet of foam, as specified in flyer.
10. Plywood firewall is allowed. Spars and other structural parts may be of any material.
11. One stunt to be performed such as loop or roll, to be called out by pilot while flying.
12. Design to be shown at the General Meeting on 3 July 2018, prior to the event. (State of completion to be determined.).
13. A points scale will be prepared for judging the following characteristics. Note that Joni Whitsitt might be able to provide the points grading that she used in 2017.
  - Design originality.
  - Craftsmanship.
  - Stability of flight while circling field.
  - Stunt quality.
  - Spot landing (Quality and measurement to landing spot).

It was suggested that this event be open to other clubs. It may be difficult for other competitors to comply with item 12 above.





**Dollar Tree Foam Challenge for 2018 (Continued).**

The following is the flyer for the 2017 design, build, and fly event.

## 2017 DOLLAR TREE FOAM CHALLENGE

Date: Halloween, Tuesday, October 31, 2017, Fairview Model Airport

Time: 8:00 AM to 11:00 AM (1<sup>st</sup> session)

2:00 PM to 6:00 PM (2<sup>nd</sup> session)

The main thrust of the Challenge is to use the "Dollar Tree Foam Sheet" for the structure of the airplane. It's your choice to use any design, any weight under 10 pounds and any electric source of power. Radio control is implied by the flight tasks.

If you think the Challenge is too difficult you should Google "Nutballrc". The plane is built from one sheet of "Dollar Tree" foam and a hot glue gun or epoxy. Additional structural support is of your choice.

We are doing the Challenge in two sessions to give the membership plenty of time to attend and have fun on Halloween. No Landing Fee. AMA Required.

Challenge Awards: 1<sup>st</sup> Place \$50.00 Gift Certificate – From Rob's R/C Hobbies

2<sup>nd</sup> Place \$30.00 Gift Certificate – From Rob's R/C Hobbies

3<sup>rd</sup> Place \$20.00 Gift Certificate – From Rob's R/C Hobbies

- Judging:
1. Design and Appearance
  2. Fly ability (stable fly by)
  3. (1) 720 (2 overlapping circles)
  4. Controlled landing

Joni Whitsitt, President, Harbor Soaring Society

### **Foam Board Specifications**

Foam Board Specifications: Each Board is 3/16' polystyrene foam core, laminated on either side with heavy Kraft paper. Material: Polystyrene Color: White Width: 20 inch Length: 30 inch Redit-Board Foam Board. You can also purchase the foam board at any Dollar Tree Store for \$1.00

### **Fairview Park Weather Station**

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> Click on the 10 day forecast to get detailed wind velocities and directions.



**HSS Membership – Renew now if you haven't.**

Our 2018 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 20 September, 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](http://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](http://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.

**FAA Concern over Drone Flying Safety**

The Federal Aviation Administration's (FAA) information on the extent of unsafe use of small unmanned aircraft systems (UAS) in the national airspace system is limited. Although FAA collects data on several types of safety events involving small UAS, the accuracy and completeness of the data are questionable.

For example, since 2014, pilots and others have reported to FAA over 6,000 sightings of UAS, often flying near manned aircraft or airports, but FAA officials told GAO that FAA cannot verify that small UAS were involved in most of the sightings. Officials explained that small UAS are often difficult for pilots to identify definitively and typically are not picked up by radar. Such data limitations impede the agency's ability to effectively assess the safety of small UAS operations. FAA is taking steps to improve its data. For example, it is developing a web-based system for the public to report any sightings of UAS that are perceived to be a safety concern and a survey of UAS users on their UAS operational activity.

FAA did not have time frames for completing these efforts, but according to FAA, each of the efforts is underway and at varying stages of development. FAA is also evaluating technologies for detecting and remotely identifying UAS, and that could improve data on unsafe use.

Article provided by Jim Sonnenmeier.

**SC-2 Competition Schedule**

The preliminary schedule for the Southern California Soaring Clubs 2018 competition schedule is shown below. Locations and dates are tentative except for the February 18 event at Hemet. Firm dates will follow as listed on <https://www.rcgroups.com/forums/showthread.php?t=2806592&goto=newpost> or the following link:

<https://www.rcgroups.com/forums/showthread.php?3012166-SC2-2018-Southern-California-Soaring-Clubs-Official-Thread>

May	20	Victor Valley RC Flyers	<a href="http://www.vvrcf.org">www.vvrcf.org</a>	August	19	TOSS
June	17	HSS, Costa Mesa		September	16	TPG
July	15	ISS (Soccer field)	<a href="http://www.gllideiss.us">www.gllideiss.us</a>	October	21 -	SWSA

All event information and competition results will be found on these links.

**June 17 SC-2 Competition**

HSS will host the fifth Southern California Soaring Clubs (SC-2) glider competition on June 17, 2018. The event will be held at our Fairview Park flying field. See flyer on following page. Club members are needed to assist in conducting the event. Contact Erv Szego or Jim Sonnenmeier if you can help.





## Harbor Soaring Society Invites you to the June 2018 SC2 Contest

Website: <http://www.harborsoaringsociety.org/>

**Date:** Sunday, June 17, 2018

**Location:** Fairview Park 2525 Placentia Ave. Costa Mesa, CA 92628  
(Enter from Canyon Dr. – see map)

**Field:** **Dirt, a little Grass and More Dirt**

**Contest Director:** Jim Sonnenmeier  
[jrs36psu@gmail.com](mailto:jrs36psu@gmail.com)  
(814) 490-9957

**Club President:** Joel Jones  
[simpleamps@me.com](mailto:simpleamps@me.com)

**Sign up:** 8:00 AM  
**Pilots Meeting:** 8:45 AM  
**Contest Starts:** 9:00 AM

**Fee:** \$10.00 Each Class – Open, RES Free for NOVICE and AMA Junior Members – proof required

***No Flying over launch area or ANY area to the East of the launch area below launch height***

### TASKS:

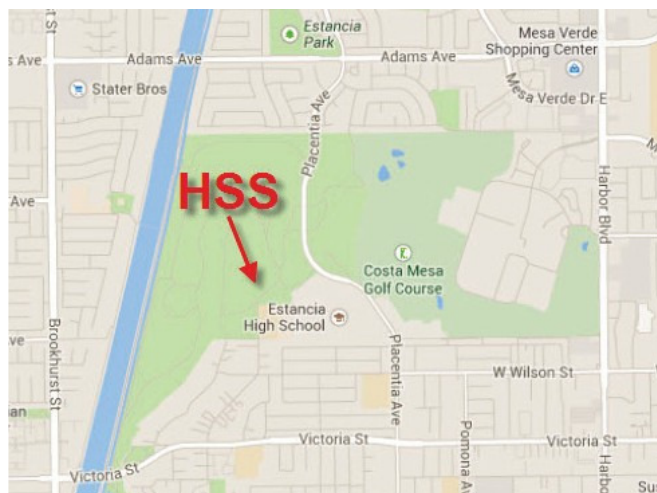
4 Rounds of Precision Duration – flights each worth 950 points – landing 50 points – 1000 points total per round.

*Round 1: 8 mins., Round 2: 8 mins., Round 3: 10 mins., Round 4: 10 mins., – For a total of 36 minutes* – Open flight order

**LAUNCHING:** **Winches** (approx 500' to turnarounds) OR **Electric launch** – landing zone behind winches on model runway. E-Launching is parallel to winch corridor with height limited to 150 meters by limiting device.

**AWARDS:** OPEN Expert, Intermediate, Sportsman and RES – 1st thru 3rd place,  
WOODY – 1st place only

**RULES:** AMA membership required All 2018 SC2 Rules apply Restroom available on site



GPS 33°39'37.11"N, 117°56'25.55"W



The field will be open at 7:30 AM and the winches will be set up by approximately 8:00 AM for practice or fun flying. The winches will be shut down at 8:45 AM for the pilots meeting.

See HSS website for more field info: <https://www.harborsoaringsociety.org/flying-sites>



**SC-2 Competition Results**

Following are the results of the second SC-2 contest hosted by Silent Wings Soaring Association (SWSA) at Fish Canyon, Azusa, April 15, 2018.

SC2 Contest # 2						Hosted By ISS									Normalized Sort				Contest Entries		
SWSA - Fish Canyon, Azusa, CA April 15, 2018						Contest Director: Stephan Hess Scorekeeper(s): Les Ward													25		
Thermal Duration						Round 1, 8 mins.			Round 2, 9 mins.			Round 3, 10 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	145	Reagan, Mike	TOSS	E	W	7.59	0	948.0	9.01	10	953.2	10.00	100	1000.0	10.02	80	986.8	3888.1	1000.0	2500.0	
2	119	Khanl, Ali	SC2	E	W	7.58	100	996.0	8.58	10	951.5	10.00	40	970.0	9.56	20	953.7	3871.2	995.7	2389.6	
3	102	Brooks, Tony	SWSA	E	W	8.01	0	948.0	8.58	40	966.5	10.01	20	958.4	9.59	40	968.4	3841.3	988.0	2272.3	
4	133	Garland, Steve	ISS	E	W	8.01	0	948.0	9.05	10	946.2	10.01	80	988.4	10.01	0	948.4	3831.1	985.3	2167.7	
5	107	Fillce, Gary	TOSS	E	W	7.57	0	944.1	8.57	20	954.7	10.05	0	942.1	10.02	0	946.8	3787.7	974.2	2045.8	
6	203	Stanton, Steve	ISS	I	W	7.42	50	939.4	8.53	0	937.7	9.57	0	945.3	9.44	60	954.7	3777.0	971.4	1942.8	
7	111	Gomez, Manny	ISS	E	W	8.00	40	970.0	8.50	0	932.4	9.27	0	897.8	9.55	20	952.1	3752.2	965.1	1833.6	
8	2	Hess, Stephan	TPG	E	W	6.23	0	758.0	9.01	0	948.2	10.02	10	951.8	10.02	80	986.8	3644.9	937.5	1687.4	
9	117	Jolly, Larry	TPG	E	W	8.02	60	976.0	9.00	40	970.0	7.14	0	687.2	10.00	40	970.0	3603.2	926.7	1575.4	
10	5	Thonet, Andy	SWSA	E	W	5.24	60	671.3	8.59	0	948.2	9.58	100	996.8	9.56	80	983.7	3600.0	925.9	1481.4	
11	129	Pearson, Rick	VVRC	E	W	8.01	60	978.0	8.59	0	948.2	5.25	0	514.6	9.56	60	973.7	3414.5	878.2	1317.3	
12	200	Douglas, Ian	SWSA	I	W	8.06	0	938.1	9.03	0	944.7	4.20	60	441.7	10.06	0	940.5	3265.0	839.7	1175.6	
13	202	Tau, Manny	SC2	I	E	7.53	60	966.1	8.55	80	981.2	9.57	0	945.3	2.52	0	272.3	3164.9	814.0	1058.2	
14	114	Hallford, Phillip	SWSA	E	W	8.00	80	990.0	8.58	0	946.5	4.21	0	413.3	7.21	20	708.3	3058.0	786.5	943.8	
15	128	Glardl, Sam	SWSA	E	W	3.41	0	437.4	9.07	0	937.7	7.02	40	688.2	10.05	0	942.1	3005.3	773.0	850.3	
16	334	Swain, John	ISS	S	W	7.07	0	845.1	9.02	0	946.5	4.47	0	454.4	7.44	0	734.7	2980.7	766.6	766.6	
17	210	Bacani, Alvin	ISS	I	W	8.02	0	946.0	8.56	60	973.0	6.10	60	615.8	4.26	40	441.2	2976.0	765.4	688.9	
18	147	Kindrick, Keith	SWSA	E	W	8.00	0	950.0	8.58	10	951.5	10.00	80	990.0	0.00	0	0.0	2891.5	743.7	594.9	
19	110	Schwemmer, Rick	ISR	E	W	7.59	0	948.0	3.50	0	404.6	5.48	0	551.0	9.59	0	948.4	2852.1	733.5	513.5	
20	306	Smith, Paul	ISS	S	W	8.00	0	950.0	2.46	0	292.0	7.19	0	695.1	4.42	0	446.5	2383.6	613.1	367.8	
21	436	Reagan, Mike	TOSS	Res	W	7.59	40	968.0	8.56	20	953.0	3.49	0	362.6	0.00	0	0.0	2283.6	587.3	293.7	
22	103	Townsend, Craig	SULA	E	W	3.42	0	439.4	9.01	0	948.2	2.29	0	235.9	5.53	0	558.9	2182.4	561.3	224.5	
23	109	Ward, Les	ISS	E	W	7.50	0	930.2	5.09	80	583.6	3.30	0	332.5	2.53	0	273.9	2120.2	545.3	163.6	
24	446	Fillce, Gary	TOSS	Res	W	8.00	60	980.0	8.58	80	986.5	1.17	0	121.9	0.00	0	0.0	2088.4	537.1	107.4	
25	139	Stewart, Ed	ISS	E	W	8.01	10	953.0	0.00	0	0.0	0.00	0	0.0	0.00	0	0.0	953.0	245.1	24.5	

Following are the results of the third SC-2 contest hosted by Victor Valley RC Flyers (VVRCF) at their field in Hesperia, May 20, 2018.

SC2 Contest # 3						Hosted By VVRC									Normalized Sort				Contest Entries		
Victor Valley RC Park, Hesperia, CA May 20, 2018						Contest Director: Rick Pearson Scorekeeper(s): Les Ward, Tom Trivitt													28		
Thermal Duration						Round 1, 7 mins.			Round 2, 10 mins.			Round 3, 10 mins.			Round 4, 8 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	145	Reagan, Mike	TOSS	E	W	6.59	96	995.7	9.56	94	990.7	10.00	97	998.5	7.59	83	989.5	3974.4	1000.0	2800.0	
2	112	Garber, Jonathan	TPG	E	E	6.59	99	997.2	9.54	0	940.5	10.00	95	997.5	8.02	97	994.5	3929.8	988.8	2669.7	
3	134	Armstrong, John	SC2	E	W	6.37	0	898.0	9.57	99	994.8	9.59	97	996.9	8.01	92	994.0	3883.7	977.2	2540.6	
4	5	Thonet, Andy	SWSA	E	W	7.01	73	984.2	10.01	82	989.4	10.05	95	989.6	7.15	0	860.9	3824.2	962.2	2405.5	
5	125	Vera, Edgar	SWSA	E	W	7.00	95	997.5	9.59	0	948.4	10.01	86	991.4	7.14	0	859.0	3796.3	955.2	2292.4	
6	117	Jolly, Larry	TPG	E	W	7.01	93	994.2	9.59	87	991.9	10.01	96	996.4	6.03	97	766.9	3749.5	943.4	2169.8	
7	133	Garland, Steve	ISS	E	W	6.57	89	987.7	5.58	95	614.3	10.02	66	979.8	8.01	0	948.0	3529.9	888.2	1953.9	
8	121	Le, Tuan	HSS	E	W	7.00	91	995.5	10.00	81	990.5	9.56	0	943.7	4.26	0	526.5	3456.1	869.6	1826.1	
9	4	Trivitt, Tom	ISS	E	W	6.37	0	898.0	5.15	79	538.3	10.04	22	954.7	7.31	67	926.1	3317.0	834.6	1669.2	
10	2	Hess, Stephan	TPG	E	W	7.00	92	996.0	10.01	98	997.4	3.26	0	326.2	7.27	0	884.7	3204.3	806.2	1531.8	
11	306	Smith, Paul	ISS	S	W	7.10	68	961.4	9.59	89	992.9	5.38	28	549.2	4.16	0	506.7	3010.1	757.4	1363.3	
12	119	Khanl, Ali	SC2	E	W	7.00	96	998.0	0.00	0	0.0	9.57	80	985.3	7.57	91	989.6	2972.8	748.0	1271.6	
13	203	Stanton, Steve	ISS	I	W	7.04	89	985.5	10.01	97	996.9	3.01	0	286.6	4.44	92	608.1	2877.0	723.9	1158.2	
14	229	Campbell, Frank	SWSA	I	E	2.55	59	425.3	9.52	99	986.8	5.08	0	487.7	7.41	69	946.9	2846.7	716.3	1074.4	
15	211	Creager, Ronald	SC2	I	W	4.22	0	592.6	10.25	0	910.4	3.28	69	363.8	8.06	48	962.1	2829.0	711.8	996.5	
16	200	Douglas, Ian	SWSA	I	W	4.51	35	675.7	5.45	84	588.3	6.27	0	612.8	4.15	0	504.7	2381.4	599.2	778.9	
17	403	Barr, John	SWSA	Res	W	3.37	79	530.3	8.19	88	834.1	9.49	0	932.6	0.00	0	0.0	2297.0	577.9	693.5	
18	411	Aber-Song, Ed	EDSF	Woody	E	2.30	0	339.3	9.03	0	859.8	3.28	0	329.3	3.49	0	453.2	1981.6	498.6	548.4	
19	142	Throop, Terry	SULA	E	W	6.56	87	984.5	10.00	43	971.5	0.00	0	0.0	0.00	0	0.0	1956.0	492.1	492.1	
20	109	Ward, Les	ISS	E	W	6.52	38	950.9	9.55	0	942.1	0.00	0	0.0	0.00	0	0.0	1893.0	476.3	428.7	
21	1	Lee, Mike	ISS	E	W	5.58	0	809.8	10.09	92	981.8	0.00	0	0.0	0.00	0	0.0	1791.5	450.8	360.6	
22	202	Tau, Manny	SC2	I	E	4.27	83	645.4	3.56	95	421.2	3.46	0	357.8	1.54	0	225.6	1650.1	415.2	290.6	
23	334	Swain, John	ISS	S	W	2.57	0	400.4	6.42	29	651.0	1.37	0	153.6	2.04	0	245.4	1450.4	364.9	219.0	
24	307	Summers, Sean	ISS	S	E	1.51	0	251.1	11.02	22	862.8	2.01	0	191.6	0.00	0	0.0	1305.5	328.5	164.2	
25	106	Dora, John	ISS	E	W	6.11	77	877.7	3.21	99	367.8	0.00	0	0.0	0.00	0	0.0	1245.4	313.4	125.3	
26	129	Pearson, Rick	VVRC	E	W	7.01	86	990.7	0.00	0	0.0	0.00	0	0.0	0.00	0	0.0	990.7	249.3	74.8	
27	303	Bibler, Steve	VVRC	S	E	2.20	37	335.2	4.36	0	437.0	2.03	0	194.8	0.00	0	0.0	966.9	243.3	48.7	
28	316	Fisher, Cole	SC2	S	W	3.17	0	445.6	0.00	0	0.0	0.00	0	0.0	0.00	0	0.0	445.6	112.1	11.2	





**Jerry's Jets**

Jerry Smith really likes his electric ducted fan scale model jets. Likewise, Rob Askegaard, our wonderful club photographer likes to take pictures of scale models. As a result, we have at right and below, Jerry's McDonnell Douglas T-45 Gashawk Navy trainer. It has a 45" span, 90 mm EDF from Freewing, and has many features: flaps, slats, speed brakes, gear and lights. Flies well.

Below that are two photos of Jerry's Douglas F4D Skyray. Thanks, Rob.



**2018 SAE Aero-Design West Competition**

This article was written by Steve Manganelli and first appeared in Peak Charge, the very excellent newsletter of Silent Electric Flyers of San Diego, edited by Steve Belknap. Note the difference between SAE and AIAA competitions. (Thanks Steve Manganelli and Steve Belknap. - Ed.)

Those that know me know about American Institute of Aeronautics and Astronautics (AIAA) Design-Build-Fly (DBF) competition for under-graduate aeronautical engineering students. I've been supporting UCSD and SDSU teams for many years in in this endeavor, their flyoff occurring the 2nd week in April in either Tucson or Wichita. In March or early April we often observe the teams practicing and test flying at our field prior to heading out to the competition.

Similar to DBF, Aero-design West attracts teams of College students from literally around the world. There were teams from India, Mexico, Egypt/Middle East, Asia and South America along with "locals" from the around the US. There is also an Aero-design East competition in Florida oriented to Eastern US Schools. I guess if you're coming from ½ way around the World, it doesn't matter which one you attend. This year's West competition was held at the Valley Flyers R/C field in the San Fernando Valley of Los Angeles, April 6th through 8th. Myself, Steve Neu and Jeff Keesaman had the pleasure of an up-close look thanks to Neumotors connection with an electronics device (more later on that).

Though both DBF and Aero-design are both essentially R/C model cargo carrying competitions, DBF organizers change the rules every year to discourage year over year design iterations whereas Aero-design rules are pretty static. The DBF students have to write a 60-page paper documenting their design while the Aero-design students have to make a presentation to industry members (just prior to the competition) about their aircraft. Aero-design has (3) classes: Micro, Regular and Advanced. The classes repeat in order on each day of the competition, with 4 rounds of each class we observed being flown on Saturday, April 7th.

The Micro-class seems to favor an aircraft of approximately 3' to 4' span and must be hand launched. I believe their score is based on the ratio of empty weight to cargo weight and obviously the power system is constrained to be a fairly small electric system. The rules encourage starting off light/safe and then increasing weight as the contest ensues. The Micro-class most likely becomes a demolition derby of attrition as the combination of difficult hand launches and overweight airplanes weeds out the field. This was starting to happen on Saturday and I'm sure became more entertaining on Sunday.

The rules for Regular class specify 1000-Watt maximum electric power and a spec required 6S-3300 Lipo Battery. How might that be adjudicated, you say? Enter SEFSD's Steve Neu and Jeff Keesaman of Neumotors whom designed and built a device that monitors battery voltage and current and throttles back the speed control to maintain the power at 1000 watts. Me personally, I like to spec my high performance sport/pattern models with a target power loading of 200 Watts-in per pound. Therefore, my 1000 watt "cargo" model should have a gross weight of 5 lbs. : I wouldn't have done too well in Aero-design as the competitive models had a gross weight of more like 45 lbs.! Their cargo was combination of steel plates and tennis balls. These models were behemoths of 10'+ span and 15" to 24" chord high lifting, under-cambered airfoil wings. President Brad would be proud of them! There were no points for speed; some of these models appeared capable of hovering in a modest headwind. All the models had to do for a successful mission is takeoff in ~ 200 ft., make one circuit of the field and land without shedding parts. Fortunately the Southern CA weather smiled upon us with light winds and clear skies. However that didn't mean that all the monsters climbed briskly and a simple, safe down wind turn was a no brainer, no way! There were plenty of flights where the model never got above 50' altitude and there was significant concern about clearing the bushes at the end of the runway. Many times we had to stand up from our chairs to maintain the aircraft in view. There were a lot of guffaws where a model was staggering on the prop and we were sure a stall-snap roll crash was imminent: this happened a few times but not as many as expected due the great skills of some of the Valley Flyers "Company Pilots". One memorable flight, the R/C system went into failsafe and the model completed an uncommanded barrel roll at about 50 ft altitude. The control was restored and the pilot made a safe landing to the cheers of the crowd.





**2018 SAE Aero-Design West Competition (Continued)**

In Advanced class, power was limited to .46 in<sup>3</sup> total nitro burning engine(s). Their cargo was combination of steel plates and streamer connected shot (?) bags that were expected to be dropped on command. There was also some FPV style video and telemetry that was intended to allow the model to be lined up for the bombing run prior to bombs...er shot bags away! Maybe like the old Norden Bomb sight equipped B-24s and B-17s of WW2: "Okay bombardier, you have the controls!" Getting the engine(s) running and the telemetry downlink working seemed to be problematic for many of the flight attempts, which often resulted in no-drop or no flight as their preparation time expired. Organizers were very strict about preparation time to get the models into the air. Too long and you're done which kept the competition moving briskly even though it was just one flight at a time. Though most models were what I called "Monokote overcast", a team from Poland had a molded all composite model that had every bit the craftsmanship of a competitive F-5J model or one of Steve's Russian built F-5B Avionic models. The Polish team was doing very well as did a team from China that featured geared twin "scale buggy" type engines. The Chinese team calmly went about their business and put their shot bags on the bulls eye while other teams were either scampering to complete or rebuild their aircraft on the field, or soliciting help from others. One amusing call for help was a team requesting the use of the Club's welder to repair a model!

I'm sure the contestants had a great time, the Valley flyers wore out their volunteers and made some nice cash for their club treasury while the SAE reps I'm sure were happy to have this contest completed. I'm going out on a limb to surmise that the Chinese and Polish teams are at the top of the podium. Should it concern us in some way that the next generation of top Aero Engineering bombing experts are Chinese?

Click on the pic for a lot of very interesting model airplane concepts.



**Jets Around The Field**

Rob Askegaard has captured some additional ducted fan jets as shown below. First are three photos of Loren Sagejer with his YAK 130 by Freewing from Motion RC ([www.motionrc.com](http://www.motionrc.com)). It has a 50" span, 90 mm EDF, 6s 5000ma battery. Flies very nicely - has stabilization system. At bottom is David Dang and his Douglas A4D Skyhawk by Freewing. He flew it but it went down way out in the weeds and he couldn't find it. It is suspected that somebody picked it up and stole it. Thanks, Rob. -





**Chino Air Show**

Our intrepid camera man, Rob Askegaard, attended the Chino Air Show on Saturday May 5. Here are a few of the neat photos he took at the show.

P-51A Mustang



Canadian T-6.



Grumman F7F Tigercat



Mig-15 and F-86.



**Chino Air Show (Continued)**

Spitfire.



P-47 Thunderbolt.



P-51B Mustang.



C-47.





### 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.

1984: Jan through Sept and Nov missing.

1985: June missing.

1986: May missing.

1987: Feb missing.

1994: Nov missing.

1995: Aug missing.

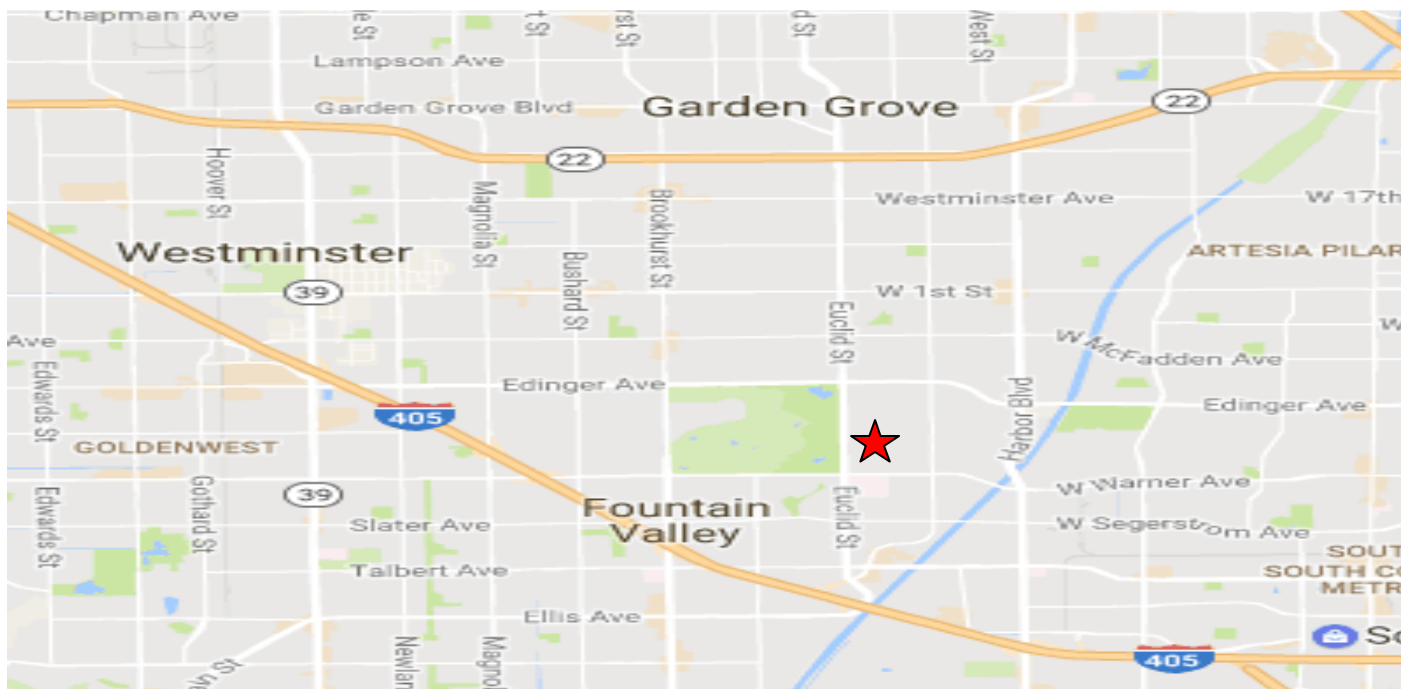
1996: Feb, June missing

1999: Dec missing.

Plane Rap issues from 1984 to present are maintained by our Secretary Joni Whitsitt. This is 34 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 to access any issues, contact Bruce Gale as shown on the last page of this newsletter.

### June 5, 2018 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. We will meet our new officers for 2018 and have show-and-tell of your favorite plane. Bring your wife, family, and friends. There will be a raffle. The location map is shown below.



### Donations For Club Raffles

Members are invited to donate planes, radios, and all the things needed to keep them flying. These will be used for the raffles held at each monthly General Meeting. Stuff can be anything that has some value and/or can be repaired. Contact Henry Smith III with your donations. Contact info on last page of this newsletter.



**2018 City Flying Permits Available**

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](http://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:** \$50 per year for Costa Mesa residents. \$55 for nonresidents. Learner's Permit for youths 6-14 years old - \$TBD per year.

**WALK-IN** Costa Mesa City Hall (77 Fair Drive, Costa Mesa 92626), 3<sup>rd</sup> 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 driver's license.
- Copy of the AMA Membership Card (showing the required year) or home owner's/personal liability insurance policy (specifically covering model airplane/aircraft flying with a minimum limit of \$500,000).
- Renewal Fee 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 Members For 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](mailto: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 who wishes a high quality print or jpg file of their favorite plane should contact Rob, or your editor. Phone and E-mail information is shown on last page of this newsletter.





**New Web Site Manager**

We are sorry to report that David Miller will no longer be our Social Media Manager. Fortunately Joel Jones has the background and will take over for David.

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

We are pleased to offer free advertising space for anyone who has items or services for sale.

- Your newsletter editor has a long shaft Ford starter motor and relay suitable for winch or retriever use. Motor is free to any party. See contact info on last page of this newsletter.

**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.

**AirPixel Technologies/FrSky Distributor**

I just wanted to reach out on behalf of FrSky, as we are working directly with the manufacturer to do some community outreach to aviation clubs that are close to us here in Southern California, as provided by the AMA Club list. If anyone who happens to be a part of your club or organization is looking to purchase any number of **FrSky radios, receivers, gimbals, or other FrSky products**, we would love to assist in fulfilling these needs. During this outreach, we will be **lowering our prices to assist local clubs** in obtaining the necessary gear to get members flying as soon as possible. If you or anyone in your club is looking for products of this variety to assist in your RC aspirations, please do not hesitate to contact us via email or at our office phone number, which I will attach below, where we can answer questions regarding sales and warranty questions, and assist with any and all FrSky product related technical difficulties that you or your club members might run into.

Thanks so much for keeping the hobby alive and I look forward to hearing from you! -Brock

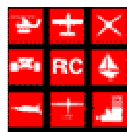
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All HSS Club members with proof of club membership, will get a 10% discount on most parts and accessories. Discount does not apply to plane kits, helicopter kits, radios, and other already marked down products. Please ask staff if you have any further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

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## MEMBERSHIP APPLICATION 2018

## 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: September 20, 2017 (MJG)



## HARBOR SOARING SOCIETY OFFICERS FOR 2018

President	Joel Jones	949.378.7393	<a href="mailto:simpleamps@me.com">simpleamps@me.com</a>
Vice President	Mike Fox	714-421-1556	<a href="mailto:mlfox46@yahoo.com">mlfox46@yahoo.com</a>
Treasurer, Membership	Henry Smith III	714-322-6537	<a href="mailto:henry.smith.3@earthlink.net">henry.smith.3@earthlink.net</a>
Secretary	Joni Whitsitt	714-396-2523	<a href="mailto:whitsittjo@gmail.com">whitsittjo@gmail.com</a>
Contest Coordinator	Bruce Schaefer	714-814-6412	<a href="mailto:metaterra@msn.com">metaterra@msn.com</a>
Safety Coordinator	Jim Sonnenmeier	814-490-9957	<a href="mailto:jrs36psu@gmail.com">jrs36psu@gmail.com</a>
Alternate Safety Officer	Vincent San Filippo Jr.	714-791-5588	<a href="mailto:vincsfjr@gmail.com">vincsfjr@gmail.com</a>
Grounds Keeper	Ryan McMinimy	714-948-0942	<a href="mailto:hotshotviper@hotmail.com">hotshotviper@hotmail.com</a>
Editor/Publisher	Fred Hesse	714-963-5838	<a href="mailto:fhesse@socal.rr.com">fhesse@socal.rr.com</a>
Club Photographer	Rob Askegaard	714-968-1973	<a href="mailto:rmaskegrd@gmail.com">rmaskegrd@gmail.com</a>
Social Media Manager	Joel Jones	949.378.7393	<a href="mailto:simpleamps@me.com">simpleamps@me.com</a>
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Certified UAV/Drone Instructor	Joel Jones	949.378.7393	<a href="mailto:simpleamps@me.com">simpleamps@me.com</a>

See our web site at [www.harborsoaringsociety.org](http://www.harborsoaringsociety.org), our YouTube site at <http://www.youtube.com/user/hssletsfly> , and Facebook at [www.facebook.com/harborsoaringsociety](http://www.facebook.com/harborsoaringsociety)

## NEXT CLUB MEETING WILL BE:

**TUESDAY JUNE 5, 2018, AT ROUND TABLE PIZZA, 11095 WARNER AVE.  
COSTA MESA, GENERAL MEETING 7-9 PM.**

**BRING YOUR FAMILY, WIFE, AND FRIENDS FOR DINNER. WE WILL HAVE SHOW AND TELL, AND  
A SPECTACULAR RAFFLE. SEE DETAILS AND INSTRUCTIONS TO LOCATION ON PAGE 11.**

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

