



# 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.

March 2017

HSS IS NOW OVER 53 YEARS OLD!

Volume 54

**Renew your HSS Membership by the end of March 2017, or your newsletter delivery will be curtailed.**

**See Page 13 for details.**

### Plane Rap Index

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### Coming Events and Soaring Competitions

March - April 2017

- Tuesday March 7, 2017. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.4 for details.
- Sunday February 26. First SC2 at Hemet Model Masters Lakeview/Davis Field.
- Saturday March 11, 2017. A safety meeting is planned for all HSS members and non-members. This will be at 9 AM and will be conducted by Greg Stone, AMA Assistant Vice President for Area X. Bring your club identification. Donuts and coffee will be served.
- Sunday March 19. Second SC2 competition hosted by SWSA. [www.silent-wings.org](http://www.silent-wings.org).
- Tuesday April 4, 2017. HSS monthly meeting, Round Table Pizza, 11095 Warner Ave. General meeting, 7 PM. See P.4 for details.
- Imaginology, scheduled for Apr 21-23, 2017. See page 14 for details.



**General Meeting Minutes, February 7, 2017.**

The General Committee meeting of HSS was held at Round Table Pizza, Fountain Valley, CA. The meeting convened at 7:00 P.M. Joni Whitsitt President, presiding.

Board and Steering Committee Members 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****New members:**

- Gary Norman
- Bob Davie

**Orange County Model Association**

OCMA will host a swap meet on Saturday, March 4, 2017. Gates open at 7:00 AM.

**HSS Safety Meeting**

A safety meeting is scheduled for Saturday, March 11, 2017 at Fairview Park. Greg Stone, AMA District X, Associate VP will be the speaker.

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.

**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 participants are the Knights of the Round Circle and the Civil Air Patrol. We hope to have use of the entire hangar this year. Please consider volunteering your time to support this event and your club.

**Concerts in the Park**

There will be three concerts in the park this year, but the dates are not scheduled yet. There will also be a Summer program by Historical Society of Costa Mesa.

**HSS SC2 Glider and Bent Wing events**

SC2 is scheduled for Sun, June 25, 2017, and Bent Wing is scheduled for Saturday, Aug 12, 2017. The Contest Director is Bruce Schafer.

**HSS Electric Fun Fly**

To be scheduled. A suggestion was made to combine this event with a swap meet and barbeque.

**Other events**

The HSS Open House and the Halloween Scarecrow event are to be scheduled.

The Lost Hills Free Flight championship will take place over the next three weekends of Feb 11<sup>th</sup>, 18<sup>th</sup>, and 25<sup>th</sup>.

Jesse Calleros shared that the Science Olympiad will be held on Feb 11, 2017.

**LiPo Battery Safety**

Joni Whitsitt has a pamphlet on LiPo batteries available for interested HSS members. See pages 8-9 of this issue.

**Membership**

Mike Gaczkowski reported that the deadline for membership dues is the end of March 2017. After that, unpaid members will be removed from the club roster and will not receive a newsletter.

A suggestion was made to add a check-off box to the City of Costa Mesa flying field permit application to indicate if the applicant is a member of HSS.



**General Meeting Minutes, February 7, 2017 (Continued).**

**Guest Speaker:** Randy Wilbur.

Randy shared his beautifully detailed VQ ARF Dauntless, shown at right. It has a DLE 30cc gas engine, tail hook, removable bomb bracket, Rohm air retracts, pilots, remote control choke, kill switch, and 3-way flaps. Randy added a mast and antenna for the tail, and purchased a second canopy so it he could modify the stock, closed canopy to be open. Randy is planning the maiden flight in Pomona when the weather clears, and will fly the Dauntless with an Airtronics 10 channel transmitter.



**Show 'n Tell**

Henry Smith III shared a model that used to be a Hobby King Sky Mule, shown below left. He purchased a conversion kit to create a boat hull, and mounted tip floats where the Sky Mule's skis would have gone. Henry added a rudder, and mentioned that he could add wheels to also fly from land. Maybe a future modification, Henry?

Chuck Harrington shared some useful modeling tips:

- Suggested using a box cutter if you're no longer able to safely handle a razor blade
- Showed a rubber-powered plane, below right, and a plane holder with storage for the prop and flight rubber
- Suggested using an archer's bow hand protector when shaping wooden props to protect from accidental cuts when carving toward your hand.



**Opportunity Drawing:**

<u>Item:</u>	<u>Donor:</u>	<u>Winner:</u>
Charger		Mike Gaczkowski
Thunder Tiger Motor Glider		Charles Siegfroid
Glider		Dick Baxter
Glue		Ryan McMinimy
Watt Meter		Jim Sonnenmeier



**General Meeting Minutes, February 7, 2017 (Continued).**

**Members in Attendance:**

Bruce Gale	Kevin Koch	Ted Broberg
Charles Siegfroid	Larry Koch	William Vincent, II
Dick Baxter	Mike Gaczowski	Jim Sonnenmeier
Dick Odle	Ralph Siegfroid	Chuck Herrington
Fred Hesse	Randy Wilbur	Bob Davey
Jesse Calleros	Rob Askegaard	Julie Davey
John Anderson	Ross Thomas	Gary Norman
John Rittenhouse	Ryan McMinimy	Jim Hanson
Joni Whitsitt	Sid Hood	Henry Smith III

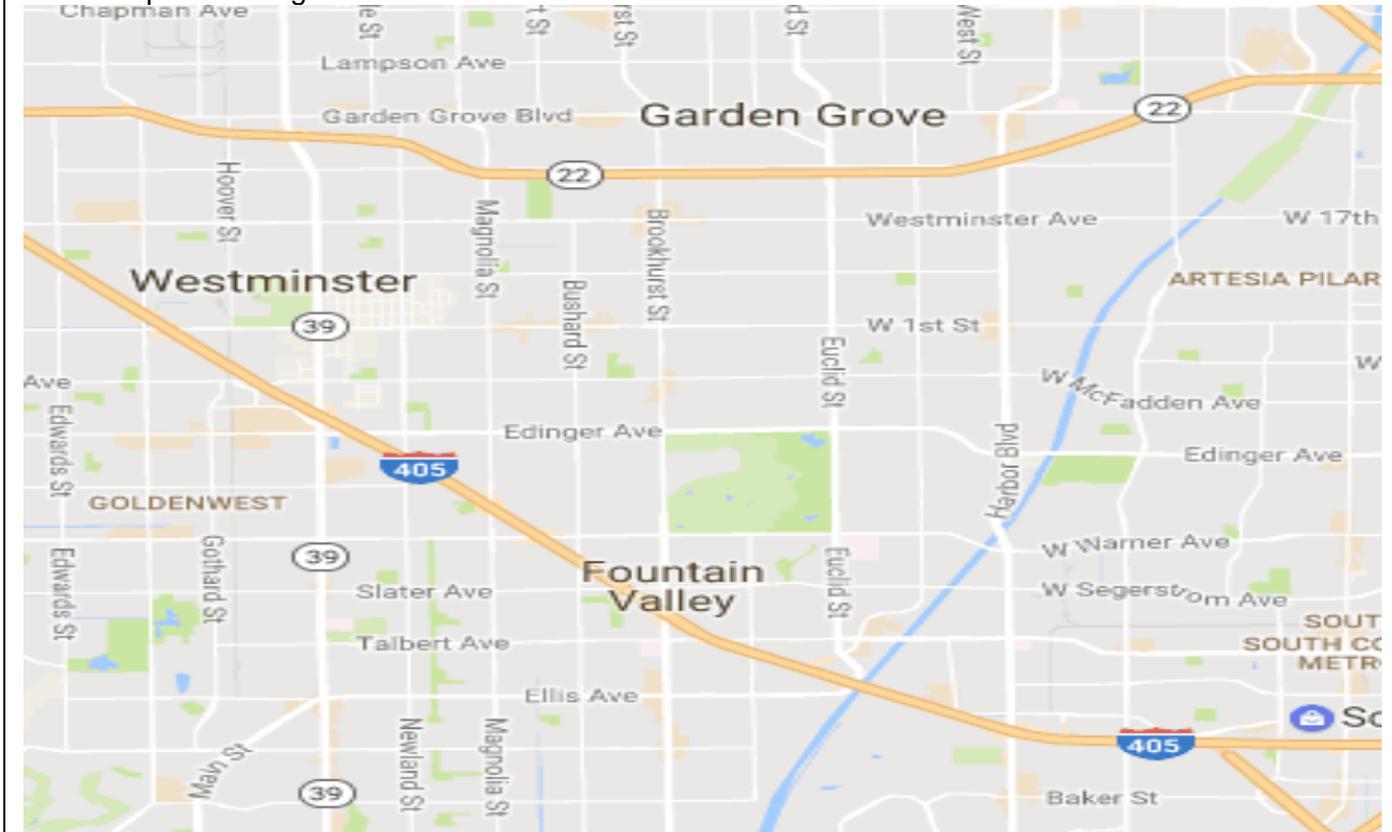
The meeting was adjourned at 8:05 PM.

Respectfully, Bruce L. Gale, - Secretary, Harbor Soaring Society

**March 7, 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.



## 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.

- ... February 16/17/18<sup>th</sup>
  - ... Saturday, February 25<sup>th</sup>
  - ... Saturday, February 25<sup>th</sup>
  - ... Sunday, February 26<sup>th</sup>
  - ... March 3/4/5<sup>th</sup>
  - ... Saturday, March 4<sup>th</sup>
  - ... March 17/18/19<sup>th</sup>
  - ... March 18<sup>th</sup>/19<sup>th</sup>
  - ... Saturday, March 18<sup>th</sup>
  - ... Saturday, March 25<sup>th</sup>
  - ... Saturday, April 8<sup>th</sup>
  - ... Saturday April 8<sup>th</sup>
  - ... April 8/9<sup>th</sup>
  - ... Sunday, April 9<sup>th</sup>
  - ... Saturday, April 22<sup>nd</sup>
  - ... Saturday, April 22<sup>nd</sup>
  - ... Sunday, April 30<sup>th</sup>
  - ... Saturday May 13<sup>th</sup>
  - ... May 12/13/14<sup>th</sup>
  - ... Saturday, May 20<sup>th</sup>
  - ... Sunday, May 21<sup>st</sup>
  - ... May 20/21<sup>st</sup>
  - ... Saturday June 10<sup>th</sup>
  - ... Saturday, June 10<sup>th</sup>
  - ... Saturday, June 10<sup>th</sup>
  - ... Sunday, June 11<sup>th</sup>
  - ... Saturday, June 17<sup>th</sup>
  - ... Saturday, July 1<sup>st</sup>
  - ... Saturday, July 8<sup>th</sup>
  - ... Saturday August 5<sup>th</sup>
  - ... Saturday August 12<sup>th</sup>
  - ... Sunday, August 13<sup>th</sup>
  - ... Saturday, September 9<sup>th</sup>
  - ... Saturday, September 9<sup>th</sup>
  - ... Saturday, September 16<sup>th</sup>
  - ... Saturday, September 16<sup>th</sup>
  - ... September 22/23/24<sup>th</sup>
  - ... Saturday September 23<sup>rd</sup>
  - ... Sunday, October 8<sup>th</sup>
  - ... Saturday, October 14<sup>th</sup>
  - ... October 21/22<sup>nd</sup>
  - ... Saturday, October 28<sup>th</sup>
  - ... November 4/5<sup>th</sup>
  - ... Saturday, November 18<sup>th</sup>
  - ... Saturday November 25<sup>th</sup>
  - ... Sunday, December 10<sup>th</sup>
- Coachella Valley RC Club "Jet Jam"
  - Gilman Springs RC Flyers Members Appreciation Fun Fly
  - Corona RC Club Scale Event
  - SC2 Soaring Contest at Hemet Model Masters Lakeview/Davis Field
  - Coachella Valley RC Club IMAC Event
  - Orange County Modelers Association Swap Meet
  - Victor Valley RC Flyers IMAC Event
  - Hemet Model Masters Harry Gould Memorial Pattern Contest
  - Corona RC Club Float Fly at Lake Perris
  - Gilman Springs RC Flyers Club 40 Pylon Race
  - 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)
  - 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
  - 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



### **AMA Insurance Benefits**

The following article was featured in the February issue of an AMA communication called Ground Control. This explanatory information is of value to all officers and members.

Through their charter status with AMA, clubs are provided up to \$2,500,000 of liability insurance for injury or property damage claims. The coverage is not limited to an accident caused by flying models. A club can also be sued for nonflying accidents that might occur at its flying field, meeting site, or a club event. Such accidents might be caused by a club member, spectator, or someone else while acting on behalf of the club, and could arise from conditions of the premises or other nonflying activities.

Example:

Club members set up a sound system for an event, and fail to correctly secure one of the speaker boxes. The speaker falls and subsequently damages a spectator's vehicle. The liability policy would respond to a claim made against the club.

Club officers as outlined in AMA's charter club program (president, vice president, secretary, treasurer, and safety coordinator) are afforded primary liability coverage (for accidents caused by others) as it relates to their duties as officers. The insurance industry calls this vicarious liability. Note: This coverage is not just limited to club officers, but also extends to AMA members who act at the direction of, and within the scope of their duties, for AMA, such as contest directors, event managers, AVPs, large model airplane inspectors, etc.

Example:

John Doe, one of your club members and a rather inexperienced pilot, crashes his airplane and causes a severe injury to a spectator, John Q. Public. Mr. Public sues Mr. Doe, the club, and club officers. AMA's current liability policy would respond on behalf of Mr. Doe (in an excess capacity) and on behalf of the club and its officers (in a primary capacity).

There are certain situations that are not covered by AMA's liability insurance, such as claims or suits resulting from officers' decisions regarding club policy, discrimination, site use, and environmental issues. If this is of concern, a club might wish to consider contacting a local insurance agent and looking into what is most often referred to as "D&O" (Directors and Officers Insurance) and/or Environmental insurance.

Example:

Shortly before the accident, club member Bob purchased a home because it was right down the road from the flying site. Because of the accident, and the publicity that the lawsuit created, the flying site property owner decides to terminate the club's lease and turns it into his personal junkyard. Bob is now upset because a) he purchased his new home for the location and b) the property value is decreasing thanks to the rusting piles of metal next door. Bob faults the club officers for the lease termination. They knew John Doe was inexperienced and should have not allowed him to solo. Bob feels the officers mismanaged the club and sues them. This is a D&O situation, which AMA would not cover.

AMA does not provide insurance coverage for club-owned property, such as: mowers, storage sheds, etc.

### **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.

### **Excellent SR-71 Blackbird Article**

Here is a link to a spectacular article on the SR-71 Blackbird. This contains much more detail than any previous article, along with photos and diagrams.

[http://newatlas.com/how-to-fly-sr-71-blackbird/46366/?utm\\_source=Gizmag+Subscribers&utm\\_campaign=17ae84915d-UA-2235360-4&utm\\_medium=email&utm\\_term=0\\_65b67362bd-17ae84915d-91302841](http://newatlas.com/how-to-fly-sr-71-blackbird/46366/?utm_source=Gizmag+Subscribers&utm_campaign=17ae84915d-UA-2235360-4&utm_medium=email&utm_term=0_65b67362bd-17ae84915d-91302841)



**11<sup>th</sup> Annual Warbirds Classic**

Scale Squadron is featuring the 11<sup>th</sup> 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!**



Public  
Welcome!

Free for  
Spectators!



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**



## Lithium Polymer Batteries

The following article came from our president, Joni Whitsitt. These warnings and guidelines are for your safety.

### \* \* FIRE HAZARD \* \*

#### IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS FOR LITHIUM POLYMER (LIPO) BATTERIES

You must read this document prior to charging and using your Lithium Polymer (LiPo) battery. Failure to read and understand the information contained in this document may result in fire, property damage, personal injury and/or loss of life.

⚠ LiPo batteries are now commonly used in many R/C cars, boats, aircraft, helicopters and quadcopters. They offer many advantages over Ni-Cd and Ni-MH batteries, however, LiPo batteries are significantly more volatile and require that you pay careful attention when charging, discharging, using and storing them. Failure to comply with the safety guidelines in this document may result in damage to your battery, property damage, fire, personal injury and/or loss of life.

⚠ When a LiPo battery is charged or discharged improperly, used improperly, or stored improperly; or if you misuse or abuse it in any way, the battery may explode and catch fire.

**BY USING LIPO BATTERIES, YOU ASSUME ALL RISK AND LIABILITY ASSOCIATED WITH THEIR USE. ALWAYS USE, CHARGE AND STORE IN OR ON A FIRE-PROOF SURFACE. NEVER CHARGE UNATTENDED. ADULT SUPERVISION REQUIRED. THINK SAFETY FIRST!**

#### General Overview, Guidelines and Warnings:

Before using your LiPo batteries, you should familiarize yourself with them. Having basic knowledge of LiPo batteries will help ensure your safety.

- Most LiPo batteries feature two different sets of wires. One set of wires (usually one black and one red) is the power lead. The connector on this lead is plugged into your ESC, receiver or charger power connector. The second set of wires feature a white balance connector. This connector is used for charging the battery with a Lithium balance charger.
- If you need to change the power connector, solder a new power connector directly to the already preinstalled power lead, making sure to carefully observe correct polarity (red is positive and black is negative). Never solder directly to the battery and always pay careful attention to the polarity when plugging the power lead into your ESC, receiver or charger power connector!

**Never solder directly to the battery or connect with reverse polarity, which can cause the battery to explode and catch fire!**

- Never attempt to change the white balance connector. If the balance connector does not match the balance port on your Lithium balance charger, use an adapter (available from most hobby stores) to make the connection.
- 1S (single cell) LiPo batteries will not feature a balance connector. These batteries can be safely charged through the power lead. 2S (two cell) and greater LiPo batteries should always be charged through the balance connector with a Lithium balance charger.

**Never charge a 2S or greater LiPo battery without a Lithium balance charger or the battery will explode and catch fire!**

- Hard case LiPo batteries, like those commonly used in R/C cars and trucks, often don't have preinstalled wire leads. These batteries typically use a power-charge harness. The same guidelines described above apply to these batteries as well. Pay careful attention to the polarity when plugging the power-charge harness into the battery and when plugging the power lead into your ESC or charger power connector!

**Do not connect with reverse polarity. Connecting with reverse polarity can cause the battery to explode and catch fire!**

- Never allow LiPo batteries to drop below 3.0 volts per cell. When used with an ESC, make sure that your ESC is designed for use with LiPo batteries and that the cut-off voltage is set to 3.0 volts per cell or higher. 3.2 volts per cell is recommended to be safe.

**Allowing the voltage to drop below 3.0 volts per cell can result in damage to the battery. Charging or using a damaged battery can cause the battery to explode and catch fire!**

- LiPo batteries feature a discharge value that's typically printed on the label (for example, 25C). This value is the maximum discharge rate the battery is rated for and it should not be exceeded. To determine the maximum discharge rate in amps of a LiPo battery, multiply battery's capacity by the discharge value and divide by 1000. For example, if you have a 3000mAh 25C battery multiply 3000mAh x 25 (25C) and divide by 1000 = 77 amps. The amp draw should not exceed 77 amps. Amp draw can be measured using a Watt Meter (available from most hobby stores).

**Using a LiPo battery in an application that draws more current than the battery is rated for can cause the battery to overheat, swell, explode and catch fire!**

#### Charging - Discharging Guidelines and Warnings:

Follow the information in this section to safely charge and discharge your LiPo batteries. Always follow the charging - discharging guidelines for your battery carefully and use common sense at all times. Always err on the side of safety.

- Prior to charging your LiPo battery, carefully make a visual inspection of the battery. Look for any signs of damage, such as frayed wires, damaged connectors, cracks in the heat-shrink wrap or plastic case, swelling or other irregularities. If the damage cannot be fixed and/or if the battery is swelled, it should be discarded. For more information, see the Disposal Guidelines section on back.

**If you notice any damage or if you notice the battery swelled at all, do not charge it! Charging a damaged battery can cause the battery to explode and catch fire!**



**Batteries (Continued)****IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS  
FOR LITHIUM POLYMER (LIPO) BATTERIES, CONTINUED....****Charging - Discharging Guidelines and Warnings, Continued:**

- Do not attempt to charge LiPo batteries with a charger that isn't designed specifically to charge LiPo batteries. Always use a Lithium balance charger and follow the instructions included with it carefully. Remember, use common sense and safety at all times.
- Do not leave the battery unattended during the charging process. If there is a problem with the battery during the charging or discharging process, unplug the battery from the charger immediately.
- Always charge LiPo batteries on a fire-resistant surface in an open area and never charge LiPo batteries near any flammable material. We suggest using a LiPo battery safety charging bag (available from most hobby stores).
- Always let LiPo batteries cool down to ambient temperature before charging or discharging them. Do not allow LiPo batteries to ever exceed 160°F (71°C) for any reason.
- Carefully verify the capacity and voltage of your LiPo battery before charging or discharging it. When selecting the cell count or voltage for charging, always select the cell count or voltage as it appears on the battery label. Double-check your selections.

**Using a different or incorrect cell count or voltage can cause the LiPo battery to explode and catch fire!**

- Always select a charge rate that is 1C or less, unless otherwise explicitly noted by the battery manufacturer. Use the following formula to determine the charge rate:  $C = X + 1000$  Where X = Battery Capacity. For example, if you have a 3000mAh battery, 1C equals a 3.0 amp charge rate (3000mAh ÷ 1000 = 3.0 amps).

**Using a charge rate higher than 1C can cause the battery to explode and catch fire!**

- Never charge LiPo batteries to greater than 4.2 volts per cell and never discharge LiPo batteries below 3.0 volts per cell.

**Charging above 4.2 volts per cell can cause the battery to explode and catch fire. Discharging below 3.0 volts per cell can result in damage to the battery. Charging or using a damaged battery can cause the battery to explode and catch fire!**

**Warning Signs That LiPo Battery Failure and Possible Explosion Might Occur:**

If you cause or observe any of the conditions described previously, such as over-charging or over-discharging, or severe damage from a crash, you can experience battery failure. If any of these things do happen, be prepared that the battery could fail.

- **Swelling of the Battery** - Swelling is caused by internal pressure that goes beyond the normal amount of pressure in every battery. This pressure makes the cell swell up like a balloon. Do not use a swelled battery! A swelled battery is a battery that has failed and needs to be discarded before explosion or fire results. Here is what to do with a battery that is on the verge of exploding or is starting to show signs of exploding:
  - **Do Not Handle Directly** - The material spitting out (if it comes to that) is spitting out at as much as 2000°F.
  - **Try to Contain the Fire** - We recommend always charging LiPo batteries using a LiPo battery safety charging bag. If you don't use a safety charging bag, we recommend a fire-proof container with a lid be kept near the proximity of any battery being used or charged. Fill the bottom with sand. Have this ready to use at a moment's notice. If the battery looks suspicious, put it in the container and drop another large amount of sand on top, then drop the lid. Let it burn out. It will smoke and fume, but the sand will contain the sparks and reduce the transfer of heat. A fire extinguisher will help, but it will not stop the chemical reaction. The only thing that can be done is to contain the fire until the fire goes out.

**Storage and Transportation Guidelines and Warnings:**

It's important that you take care in the way you store and transport your LiPo batteries. Follow the guidelines below to safely store and transport your LiPo batteries, whether it's long term storage or simply transporting to and from the field or track.

- Always disconnect and remove LiPo batteries from your model when not in use. LiPo batteries should be stored in a fireproof container.
- When storing a LiPo battery for an extended period of time, it should be stored at 60% of its capacity. Use the Storage function of your Lithium balance charger to charge or discharge the battery to the ideal storage capacity. If storing for a short period of time, then leaving them with a full charge is fine. Never store LiPo batteries in a discharged state!
- Store LiPo batteries in a low humidity area that isn't near any flammable materials. For best results, storage between 40° to 72°F is recommended. Never store LiPo batteries in high-heat conditions (80°F and higher).
- Storing the battery at temperatures greater than 150°F for extended periods of time (greater than 2 hours) may cause damage to the battery and result in fire!
- Do not expose the battery to direct sunlight or high-heat conditions for extended periods. When transporting or temporarily storing in a vehicle, the temperature should never exceed 150°F.

**Disposal Guidelines:**

If your LiPo battery is swollen or otherwise appears damaged, it must be discarded in a safe, eco-friendly manner. LiPo batteries can be discarded with household waste, but only after discharging them.

- Before discarding a LiPo battery, carefully remove the insulation from around the battery, then submerge the battery in a bowl of saltwater for 24 to 36 hours. This will completely discharge the battery. After soaking, cut off the wires, place the battery in a bag, then discard it in the trash.



**Seen Around the Field**

Another set of great photos by Rob Askegaard, except the weather has made his job a little more difficult.

At right is the result of all of the wonderful rain we have been getting.

Our runway is now in need of drastic repair, mowing, and de-weeding. The city restricts us from doing anything until the water has soaked in for two weeks. When we are cleared for mowing, Henry Smith III plans to hit it hard. However, we will need a monumental effort by all club members to get the weeds scraped off and get our nice dirt runway back in shape for landing gear.



So, Larry Koch solved the problem with his 55" span motor glider, at left. No wheels needed. It is powered with a Mega 16-15-6 motor with a 7x3 folding prop. He uses a 3 cell 1500 mAHr Lipo battery. You can't tell this beauty is 10 years old, below left.

Below right, Dave Maze brought out his E-Flite "Timber STOL" Piper Cub. It's got the right wheels for this runway..



Seen Around the Field (Continued)

Disregarding inclement weather, our club members are out anyway. In the two photos (at right and below) (and not in any order) are Joe Kacin, Jerry Laux, Larry Koch, Dave Maze, and several others that we did not get names. Many apologies for the omissions.



At right is Jim Sonnenmeier with his SiG Kadet. It has a 64" span, powered by a 40 size motor using 3-cell 4200 mAHr battery, and was built up from a kit.

Thanks Rob for the photos. - Ed.



## 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 Whitsitt to help out.



**OC FAIR**  
**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](http://ocfair.com/steam).

**WE HOPE YOU WILL JOIN US!**

**DEMONSTRATOR APPLICATION**

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

**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](http://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 will also be featured 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](http://www.silent-wings.org)

April 30 – Riverside RC Club – Perris - [www.riversidercclub.org](http://www.riversidercclub.org)

May 21 – Victor Valley RC Flyers (VVRFCF) – [www.vvrcf.org](http://www.vvrcf.org)

June 25 – Harbor Soaring Society (HSS) – [www.harborsoaringsociety.org](http://www.harborsoaringsociety.org)

July ? – Inland Soaring Society (ISS) – [www.glideiss.us](http://www.glideiss.us)

August?

September?

October ?– Torrey Pines Gulls (TPG) – [www.torreypinesgulls.org](http://www.torreypinesgulls.org)

November ?– Rain Date

To be added:

Thousand Oaks Soaring Society (TOSS) – [www.toss.freesevers.com](http://www.toss.freesevers.com)

Big Bear? Palomar? Bakersfield?

Gone for good?

Soaring Union of Los Angeles (SULA) – [sula.club.org](http://sula.club.org)

Downey Soar Heads (DSH)



**SC-2 Competition Results**

The results of the SC-2 soaring competitions held since May have not been posted at the SC-2 web site (sc2soaring.com) This web site has been abandoned. Try going to <http://www.rcgroups.com/forums/showthread.php?t=2572561&page=1> and sort through more than 11 pages of comments which are at least in chronological order. Alternately, try <https://www.rcgroups.com/forums/showthread.php?2806592-SC2-2017-Southern-California-Soaring-Clubs-Official-Thread> . Not nearly as convenient as the old way of getting results from the SC-2 web site.

**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.

**Interesting Links**

Jim Sonnenmeier has provided some interesting internet links.

First is a set of links to a youtube sight that features the development of a solar powered model aircraft. Jim comments:

“so-so success but some of the construction is interesting -- six videos so far.”

[https://www.youtube.com/watch?v=mS2UvS0Jb\\_8](https://www.youtube.com/watch?v=mS2UvS0Jb_8)

<https://www.youtube.com/watch?v=seqlvgEnfo8>

<https://www.youtube.com/watch?v=GpfrJIKaldU>

<https://www.youtube.com/watch?v=tXuRZ5V2YP8>

<https://www.youtube.com/watch?v=ptDPoYTHywg>

<https://www.youtube.com/watch?v=8q48mNlfB80>

Next, are two links to a Nova article on the search for a super-battery.

<http://www.pbs.org/wgbh/nova/tech/super-battery.html>

[https://www.youtube.com/watch?v=pCDuM\\_aplg8](https://www.youtube.com/watch?v=pCDuM_aplg8)

Thanks Jim, for your inputs. - Ed.



A little Humor

I wonder why we are so so obsessed with trying to find intelligent life on other planets, when we can't even find intelligent life here?



SOME THINGS ARE BETTER LEFT UNSAID, WHICH I GENERALLY REALIZE RIGHT AFTER I HAVE SAID THEM

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>



### 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](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:** \$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), 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 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@social.rr.com](mailto:fhesse@social.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](mailto: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.



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[www.rc-hobbies.com/orangecounty](http://www.rc-hobbies.com/orangecounty)

<https://www.facebook.com/RemoteControlHobbiesOrangeCounty>

## **ROB'S R/C HOBBIES**

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15071 Goldenwest St. Huntington Beach  
S.W. Corner of Goldenwest & Bolsa Ave  
(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](http://Robsrchobbies.com)



HSS Sponsors (Continued)



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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 2016**

President	Joni Whitsitt	714-396-2523	<a href="mailto:whitsittjo@gmail.com">whitsittjo@gmail.com</a>
Vice President	Henry Smith III	714-322-6537	<a href="mailto:henry.smith.3@earthlink.net">henry.smith.3@earthlink.net</a>
Treasurer	Mike Gaczowski	949-632-1747	<a href="mailto:mgaczowski@cox.net">mgaczowski@cox.net</a>
Secretary	Bruce Gale	949-394-3924	<a href="mailto:galebl@cox.net">galebl@cox.net</a>
Contest Coordinator	Bruce Schaefer	714-814-6412	<a href="mailto:metaterra@msn.com">metaterra@msn.com</a>
Safety Officer			
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>
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Club Photographer	Rob Askegaard	714-968-1973	<a href="mailto:rmaskegrd@gmail.com">rmaskegrd@gmail.com</a>
Social Media Manager	David Miller	949-351-7047	<a href="mailto:davidjmiller949@gmail.com">davidjmiller949@gmail.com</a>
Lead Flight Instructor	Ted Broberg	714-235-6430	<a href="mailto:tcbroberg@gmail.com">tcbroberg@gmail.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)

<p><b>NEXT CLUB MEETING WILL BE:</b>  <b>TUESDAY MARCH 7, 2017 AT ROUND TABLE PIZZA, 11095 WARNER AVE.</b>  <b>FOUNTAIN VALLEY , GENERAL MEETING 7-9 PM.</b>  <b>BRING YOUR FAMILY, WIFE, AND FRIENDS FOR DINNER. WE WILL HAVE A SPECTACULAR</b>  <b>RAFFLE. SEE DETAILS AND INSTRUCTIONS TO LOCATION ON PAGE 4.</b>  <b>SEE THE COLOR NEWSLETTER SENT BY E-MAIL AND AVAILABLE ON OUR WEB SITE.</b></p>
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**Harbor Soaring Society**  
**P.O. Box 1673**  
**Costa Mesa, CA 92626**

