



## *AMOS June 2016 Newsletter*

### *AMOS Board Meeting 6/6/17 @ 7:00PM – recap*

#### *Unfinished Business*

*Hot Dog Machine* - Mike Haston reported that Randy plugged it in, and it worked. We can return it at this time, and we are OK. Jim Irey pointed out that borrowing it again might be problematic because if it fails, we would be on the hook.

*Camp Far West* - (Seaplane Event) Gloria reported that it made \$599.

*WDA Update* - Mike Haston reported that Woodland/Davis has their runway done and in use. They will not need to use our field.

*AMA Disaster Fund* - Mike Haston reported that W/D have received disaster relief but we have not heard anything.

#### *New Business:*

*FAA Update* - Mike Haston reported that FAA registration requirement has been invalidated. It is now up to individual club members whether they want to remove FAA numbers from their planes.

*Aeromodeler of The Year* - The Board reviewed and discussed a suggestion that we upgrade the AOM trophy. After discussion, the Board concluded to keep the existing trophy as is, but also to honor each AOM winner (both past and future) with a plaque he or she can keep. On MOTION duly made and second, the Board passed the following:

*AMOS will present a plaque to each recipient of the Aeromodeler of The Year award which he or she can keep. Each living past recipient will also get a plaque to keep. Existing procedures regarding the trophy will remain unchanged.*

*Discussion of Safety Issues* - The president reminded the Board Members to always set a good example at the field. Discussion then turned to safety practices and how to discipline members who violate them. Discussion concentrated particularly on arming electric planes in the pit area.

**On MOTION duly made and seconded, the Board passed the following:**

***Secretary Jody Kahan is to draft, and present to the Board for consideration at its next meeting, wording for a rule along the following lines:***

- 1. Arming an electric aircraft in the shade structures is not allowed. Arming is defined as connecting the battery.***
- 2. The Board will issue a warning to any violator for a first offence.***
- 3. For a second offense, the violator will be required to appear before the board.***
- 4. For a third offense, or for failure to appear before the board on a second offense, the Board will implement existing procedures for membership revocation.***

**Christmas Party** - Various ideas were discussed. Question is whether any member is willing to do the planning and organizing. The question will be discussed at the General Meeting.

**Loan Payoff** - Treasurer Gloria Irey stated that the club can safely pay off its existing loan balance at this time and recommended we do so. We have \$6,000 on hand and remaining loan balance is \$3,000. Cash flow projection predicts that if we pay off loan at this time cash on hand will not go below \$2,000 at any time for the remainder of the year.

*The cash flow projection includes assumptions about revenue from new members, but projections of new member revenues have been very accurate in the past. After discussion, on MOTION duly made and seconded, the Board resolved to pay off the loan now.*

**Fast Track Hobbies** - The board reviewed a proposal from Dwight at Fast Track Hobbies that we allow a certain group of car racers (who have lost their site) to create a car facility on our field and hold events on it.

*The Board discussed a wide range of problems with the suggestion, and all agreed that at the very least members of this group would have to join AMOS and pay regular dues and field improvement fees.*

*The question was whether to reject the suggestion now or at least talk to the group's board. On a 4-3 vote it was decided to at least talk to them, board to board, if they wish to do so.*

**Board Reports:**

***President Mike Haston - Expressed thanks to John Sorenson for getting all the mowers working***

**Membership Jim Irey - 212 members. Reported holes in petromat in and around the start up area where bare ground and rocks are exposed, and patching with more petromat won't hold up.**

**Proposed spending \$160 for eight heavy duty dark gray polyester mats to cover holes. On Motion duly made and seconded, proposal approved.**

**Field Marshall Glen Gibson. Will spend about \$100 for miscellaneous supplies.**

## **AMOS General Meeting 6/13/17 @ 7:00PM – recap**

**Thanks to John Sorenson The President thanked John Sorenson for getting all the lawn mowers working and for presiding over the previous meeting.**

### **Unfinished Business**

**AMA Update - The President stated that he has not received a definitive answer, he now doubts that AMA will grant us disaster relief for our storm-damaged shade covers.**

**FAA Update - The FAA's registration requirement has been held to be illegal. Members can feel free to remove their FAA numbers from their planes. Might be a good idea to hold onto their Registration Cards.**

**Warbirds Over Roseville - The President reported great turnout, lots of good comments, pilots liked our field. One incident marred the day: at an AMA sanctioned event, in the presence of the District 10 Area VP, one of our own members (not a participant) flew a plane despite the field being closed, took off from the helicopter area, and flew into the event's airspace. The President had a few choice words for said member. The event made \$337.**

**Float Fly - John Sorenson reported: 42 entrants, better than any recent year. Safety was good except for one incident of bad pilot judgement. Event made \$599. However, John warned that he is not able to run an event of this size by himself, and will have to scale it back unless someone is willing to camp at the event and help.**

**Helicopter Pad - The President referred to an email from Basil which states:**

***"About the Helipad. I want to get it done. We got \$500 to use to build it. After talking with Jesse we need \$2,000 to get the area nicely leveled and AB added and rolled out. I can chip in \$200. That leaves \$1,300. If we can take donations (if Jim Irey wants to collect) I'm sure we can make up that amount up quickly."***

*There was some discussion concerning the helipad. Motion by Doug Keller, seconded by Geordan White: Anyone interested in donating to the helipad should contact Basil directly. Motion passed.*

*Motion by John Sorenson, seconded by Jim Hill: Move one of our gray mats to the proposed heli area to test out flying from that location and see if it works. Motion passed.*

### **New Business**

**Horizon Hobby Convergence** - *Question raised whether it is subject to rules for planes or for helicopters. Conclusion: doesn't matter. It's not allowed to hover over the runway in any case.*

**Fire Suppression Equipment** - *President: All of our red fire extinguishers are discharged and have to be replaced. However, these extinguishers are only to put out, say, a burning plane. Need some kind of device that uses water to put out a grass fire. Discussion about possible strategies.*

*Vice President urges members not to risk injury to themselves in case of a grass fire. First action should always be to call 911. Among various points made by members:*

*(1) we have water stored in 5 and 2 ½ gallon bottles in the wooden shed.*

*(2) We need a bucket of sand handy to put out any burning lipo.*

*(3) There is a backpack sprayer at the field.*

*(4) Any firefighting equipment has to be readily accessible meaning it can't be locked in the container and thus would be likely to be stolen. After discussion a Motion was duly passed directing the Safety Officer to purchase a fire extinguisher for each flight station and a few polaskis (a fire fighting hand tool consisting of an ax or adz head on a wooden handle used to dig a fireline.)*

**Field Improvement Committee** - *Proposed by John Sorenson: President should put together a committee to make a master plan for future field improvements and major repairs. Not a good idea to address projects one at a time without regard to how they fit into the big picture. Need a few members who are willing to get together and make plans.*

**Loan paid** - *off President announced that we are now debt-free.*

**Aero-modeler of The Year Trophy** - *The President reported that the Board had considered a proposal to upgrade the Aero-modeler of The Year trophy, and recommended that the Trophy remain the same, but that each living past winner and all future winners receive a commemorative plaque. Motion by Doug Keller, second by Jim Irey:*

*The Aeromodeler of The Year Trophy will remain the same but each living past winner and all future winners will receive a plaque to keep. Motion Passed.*

**Christmas Party** - *President: Randy not doing it this year. Asked for anyone at the meeting who is willing to take full responsibility to put it on. No one volunteered. Will put it out to full membership. If no one will do it, we are not going to have the party.*

**Monthly Swap Meet** - Motion by John Hainlen, second by John Sorenson: We will hold our monthly swap meet on the second Saturday of each month starting with July. Motion passed.

**Electric Motor Safety** - President requested that until a formal rule is adopted, members do not plug in their motor batteries under the shade structures because of risk of accidental start up and plane injuring someone or causing damage.

Secretary proposed comprehensive rules regarding electric model safety.

Generally, members not in favor of adding more rules; feeling that existing rules are sufficient but need to be enforced.

John Sorenson: Try to accomplish safety without writing rules that no one will enforce. Percent of people in club who are a danger is small, and we have to work with them.

President: Agrees but members who won't follow rules are a concern and have to be dealt with even if that means expelling them.

Jim Irey: Constitution already provides a member can be terminated for continual violation of safe practices. Most members seemed to agree:

(1) We can't protect members from themselves.

(2) We don't want to make new rules.

(3) We should protect members from unsafe operators.

(4) We have to enforce the rules we have.

**Board Reports:**

President Mike Haston - Thanks to all members who helped prepare the field for Warbird event. Very proud.

Vice President Randy Sizemore - Reminder, event is not over until all equipment is put back where it belongs.

Membership Jim Irey. 214 members.

## **AMOS New Helicopter Pad Area Update:**

***To complete the new Helicopter Pad area we need \$2,000.***

***For \$2,000 Jesse will Grade the area for the New Pad, Shade area and small parking spot. Then he will apply AB and Roll it out.***

***Our AMOS Helicopter group and anyone who wants to help will install the Petromat and Shade cover.***

***We have \$500 - from our club***

***Donations so far -***

***Basil Yousif - \$200 - Send me a E-mail if you would like to donate***

***Paul Erickson -\$200***

***\$900 so far we need another \$1,100 in donations to go!!***

***This new area to fly will be a fantastic addition to the club site.***

***Along with Helicopters, Multi Rotors and other types of Models can be flown there. The Helicopter flying will be further away from the parking lot and the airplane field, making it a much safer area to fly helicopters.***

***And of course no sun in the eye's while flying!!***

## **AMOS 2017 Events Coming Up!!**

***August 12, Saturday, Electric Fun Fly, John Hainlen***

***September 9th, Saturday, Combo Event - Presidents Fun Fly and General Meeting, Mike Haston - Fly and 2nd that Motion!! Hopefully not at the same time!!***

***September 29th to Oct 1st, Fri - Sun, Jet Fly, Randy Sizemore***

***October 7th, Saturday, AmoBro Fun Fly***

***October 14 and 15<sup>th</sup> - Nor Cal Huckfest at the AMOS field- Basil Yousif, Gary Meyer and Geordon White. Don't miss this one!!***

## *AMOS Event News June 2017*



### *Warbirds Over Roseville 2017*

*This was the second AMOS event at the field in 2017 with a great turnout of Pilots and Spectators. Mike Haston and family put on the event. The proceeds totaled \$337. There were many different types of R/C Warbirds from WW1 to Modern Jets. 5 WW2 planes went up at once and the field looked like the Reno air Races!!*



*Pictures care of John Garfein*



## *The Lincoln Air Fest 2017*



*I went over to check out the Lincoln Air Fest after I was at the Warbirds Event at around 2:00 PM. There wasn't too many people attending this event, but there was a spectacular Jet Stunt Air show going on. The rest of the show looked very similar to last years show with the same airplanes and cars being displayed on the ground. Event organizers did a great job of getting more planes in the Air at this years show.*



## Finding the Right Large Battery to Power R/C Model Starters and Chargers

I thought this was a easy one. I needed a large Battery that could power a fuel engine starter and a battery charger. So I bought a 20ah Deep Cycle Gel battery. It went bad within a few months of use. What happened - I lost \$30 bucks!!

There are two types of lead acid batteries. The two main types are starting (cranking), and deep cycle (marine/golf cart).

The starting battery (SLI starting lights ignition) is designed to deliver quick bursts of energy (such as starting engines) and therefore has a greater plate count. The plates are thinner and have somewhat different material composition. This type of battery likes to stay fully charged to deliver high cranking amps like in your car. If it drops below 50% capacity (like when you forget your lights on) it can be ruined so it's designed to be kept in a fully charged state.

The deep cycle battery has less instant energy, but greater long-term energy delivery.

Deep cycle batteries have thicker plates and can survive a number of discharge cycles. Starting batteries should not be used for deep cycle applications because the thinner plates are more prone to warping and pitting when discharged.

The Deep Cycle battery can be slowly drained down to a low voltage before it needs to be charged again. This makes a good choice for powering a charger.

The Dual Purpose Battery is a compromise between the two types of batteries.

This is what I ended up getting, a 35ah Jump starting dual purpose Wet cell sealed battery.

### Different types of Lead Acid Batteries:

Wet cell (flooded), gel cell, and absorbed glass mat (AGM)

Wet Cell - Uses a Electrolyte liquid around the plates. The Sealed version won't let you access the Electrolyte to check the Specific Gravity with a Hydrometer for maintenance. Car batteries are usually Wet Cells.

Gel and AGM Cell Batteries - Cost double the price of the Wet Cells but are safer and cleaner to use especially in a indoor application such as a alarm backup battery. They also store energy better and hold there charge over a longer period.

Gel Batteries are better if they are used in Deep Cycle applications. They also have to be charged with a special charger. The incorrect charger will destroy the battery. They are a type of wet cell but the Electrolyte is suspended in a Gel form. Not a

good pick for R/C use because of the need for a special charger and sensitivity to charging rates.

**AGM** - Suspends the electrolyte close to the battery plates active material enhancing its discharge and recharge efficiency. Good Dual purpose batteries. Don't let them get below 50% capacity. Easy to charge with standard charger. Good choice for R/C applications, they're safe, and stay charged when stored - but expensive!! Double the price of a Wet Cell Dual purpose Battery.

**Battery ratings and voltage** - There are many specs that rate the output and capacity of a battery. CA - cranking Amps are used for rating the power of a large starting battery and

AH - Amp Hours is used for rating Deep Cycle and Dual purpose batteries. This measures the battery's capacity in providing power over a set period of time before it needs charging.

Most batteries that you would use at the field would have a AH rating even if they are good for starting like motorcycle and riding mower types. I find 20ah to 35ah to be a good range for field starting and charging. The more capacity the heavier the battery. 20ah batteries weigh 12 -15 lbs - 35 ah weigh 25 -30 lbs

**Voltage** - most large batteries are 12 volts. Fully charged can be 12.6 volts. Each cell in the battery produces voltage and all of them in series make up the 12 volts. If a battery fully charged only measures 10 volts then one of the cells could be bad. Each cell is around 2 volts. Slightly over when fully charged. This is a standard (for car batteries) but can vary between different types of batteries.

**Lipo Batteries for R/C Starters** - using a Lipo battery strapped to a starter has been getting popular. Lipos are a good version of a small starter battery and very light. They have a great burst for running a starter motor and can be run down before needing to be charged and give you quite a few starts in that time, but they can't be used to power a charger. They couldn't deliver the amps over a long period of time to be efficient to use for powering a charger. You can use large Li-po batteries to power a small charger with low value mah batteries.

A 2000 - 3000mah 3S Lipo will work great with a starter.

**Joke:**

A child asked his father, "How were people born?" So his father said, "Adam and Eve made babies, then their babies became adults and made babies, and so on." The child then went to his mother, asked her the same question and she told him, "We were monkeys then we evolved to become like we are now." The child ran back to his father and said, "You lied to me!" His father replied, "No, your mom was talking about her side of the family."

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