



AMOS April 2016 Newsletter

AMOS Board Meeting 4/4/17 @ 7:00PM – recap

Guests Present: Doug Keller, Frank Cioli

Unfinished Business:

AMA Disaster Relief Mike Haston: Hasn't heard back on application. Will follow up.

***Lawn Mower Report** - John Sorenson reporting: Don Schwartz has repaired or is in the process of repairing red, green, and cream colored lawn mowers. Don hasn't presented a bill for any of his work nor for spare parts he paid for out of his own pocket. Motion by Jim Irey, second by Glen Gibson to give Don \$100. Motion passed unanimously.*

Spraying Weeds John Sorenson: Sprayed all the weeds. Plenty of roundup left for next year.

Shade Structures Discussion of whether to change the orientation of south end shade structures for better wind resistance and whether to take covers off in winter. After discussion Motion by John Sorenson second by Randy Sizemore to leave orientation as is and to leave the covers over next winter. Motion passed unanimously.

Finishing Spectator Area Jim Irey has a sign to put in place. Mike Haston points out AMA requires area to be permanent. Randy Sizemore: Paint line on the petromat and spray "spectator area." All agree. Motion by John Sorenson second by Van Berg: put spectator area by flagpoles, resurrect the no parking sign, and put up our plaque on the frequency board. Motion passed unanimously.

New Business:

Work Party Thursday Runway repair, patching and driving nails. Volunteers should bring hammers to pound runway nails down. Also doing mowing before the storm. If you have blowers bring them and we can blow off the runway before patching. The runway will be closed until about 1p.m.

Relocation of the Helicopter Pad - Geordan White: Explained in detail how sun glare poses a danger at all times of day with present location of helicopter area. Proposes to move the helicopter pad approximately to the western fence line and have pilots face eastward (toward the main runway) while flying. Also move the shade structure to the north side of the new helicopter area.

Discussion followed. It was pointed out that cars would be able to access the new area only in dry weather. Mike Haston advised there are no funds available this year to make a road to the new area. Randy Sizemore advised that pilots would have to keep their helis well south of the existing pits. Noted that we have plenty of petromat to cover the new pad, but it must be scraped before the ground gets too hard.

Motion by John Sorenson second by Geordan White: Geordan to obtain a cost estimate for scraping a new pad and present proposal at next general meeting. Motion passed unanimously.

US-230 Aeromodelers Geotextiles - (AMA) Mike Haston reported on an AMA article about runway material (petromat.) The article is located here:

<http://www.modelaviation.com/arvada-runway>.

Mike noted that this material is now being marketed specifically for RC runways. Mike recommended that we repair our runway every week which would only require shutting the runway down for about an hour once a week. Will test Goop adhesive for patches.

FAA Registration - Jim Irey reported that many new members are unaware that FAA registration is required or how to go about doing it. He proposes changing wording on our application form from "I affirm that I will follow all applicable FAA rules" to "FAA requires you to register under the rules governing SUAS (small unmanned aircraft systems.)" Motion made by John Sorenson and seconded to allow Jim to reword the application form as requested. Motion passed unanimously.

Board Reports:

President Mike Haston. Need to complete spectator area, shade structures, runway repairs. Will be there as much as he can.

Vice President Randy Sizemore. Proposes having one meeting this summer at the field in the form of a fun fly with food for members and their families. Discuss later.

Secretary Jody Kahan - Attorney General lost check for filing fee. Replacement check sent.

Safety/Training Van Berg - Three trainees last week. Flyer made up for hobby shops. Membership Jim Irey. 202 members.

AMOS General Meeting 4/11/17 @ 7:00PM – recap

Unfinished Business

AMA Disaster Fund Mike Haston: Still has not heard. Woodland/Davis has not heard either.

Lawn Mower Report - Mike Haston: Has priced rental of Kubota tractor with mower attachment. \$300 all day from Far West if we pick up, \$320 with trailer, \$390 if they deliver. This is in the budget.

Finishing Spectator Area - Motion by Doug Keller, Seconded, to put sign on top of pole and mark area with white stripe. Motion passed.

New Business:

Relocation of the Helicopter Pad- Mike Haston: Reported that board had approved relocation, subject to approval by members. Jessie volunteered to do the grading. Got a quote for rental of skip loader at \$485.

Proposal to scrape a new pad and dry weather only vehicle access at this time, defer consideration of graveling road surface until next year. Gloria contacted by phone, says we can afford \$500.

Motion by Geordan White, second by Doug Keller to leave existing heli pad, set up a new heli pad to south and west of it (per drawing presented to meeting) scrape ground as discussed. Motion passed.

US 230 Aeromodelers Geotextiles - Mike Haston reported that this material is being sold for rc runways and he will inquire about price and other info for future reference. Discussion of methods for patching runway. Goop effective but expensive. ABS glue was used on Heli pad, and seems to be holding up. It is available in buckets, and we have a supply on hand.

Board Reports:

President Mike Haston - FPV permitted as long as there is a spotter at all times. To do: patch runway, finish the spectator area.

Vice President Randy Sizemore - Proposed tying in one summer general meeting with flying event. After discussion, concluded the general meeting for September will take place at the President's Fun Fly on September 9. All members and their families are invited. Food will be provided.

Secretary Jody Kahan - Planning to sell some planes, donate any proceeds to club.

Membership Jim Irey - 203 members presently. Changed item 3 on Membership Application Form from "I affirm that I will follow all applicable FAA rules" to "FAA requires you to register under the rules governing SUAS (small unmanned aircraft systems.)" Reason: he found most new members do not know about FAA registration requirement. Revised form will be up on website.

Field Marshall Glen Gibson - Shade covers will be attached with cable. Going up Friday.

Contest Coordinator/Public Relations Geordan White - All upcoming events are on track. Basil Yousif: proceeding to organize giant scale event as Huck Fest. Advertisement placed. A way to get a few more flyers to come out, try different things.

Past President John Sorenson - As of January, Mather flying site will be closed down. Float fly is coming up. No one volunteered to help, so it will be a scaled back event. No food until, maybe, Saturday. Currently no running lawn mowers. Hopes to get 3 back to running. Volunteers wanted Friday 10:30 to help put lawn mowers together.

Coming up Saturday May 13th - The Helicopter Event!! Get a Burger and watch Helicopters beat the air into Submission!! Or Fly and put on a show!



Model R/C Helicopter Event

Saturday May 13th 2017 starts at 9 :00AM

Location

AMOS Flying Field at the Corner of E Catlett and Fiddymont RD

Down the street from the Thunder Valley Casino

Flying fee \$5 and Great BBQ Hamburger or Hot dog Lunch \$7

Pilots must have Valid AMA insurance

Helicopter and Multi Rotor Help Desk for Beginners

3D Stunt and FC3 Scale flying styles
3 flying areas within the field

Multi Rotor Demonstration

Contact: Basil 916-410-2791 or Geordan White 916-521-8590
Volunteers Needed
See: www.amosrc.com for directions to the field

AMOS 2017 Events

May 13th, Saturday, Helicopter Fun Fly, Basil Yousif & Geordan White

May 17th-21st, Wed - Sun, Float Fly Camp Far West, John Sorenson

June 10th, Saturday, Warbirds Over Roseville, Mike Haston

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 15th - Nor Cal Huckfest at the AMOS field- Basil Yousif, Gary Meyer and Geordan White.



Rotors Over Roseville - 2015 - Hanger 9 Rep - Brian Langston Pilot

Timing your R/C Gasoline engine the easy way

Adjusting the timing on your R/C Gasoline engine is easier than you think. You can easily set the timing and all you need is a set of calipers and a calculator. You might also get help from a unsharpened pencil.

This system sets the ignition at 28 degrees. There is no advantage to setting the ignition more than 30 degrees on any gasser engine all this will do is make the engine run hotter increasing the need to cut more into your cowl to let more airflow cool it. This system is an alternative to the timing wheel which isn't very accurate.

1) Remove the spark plug and put the engine into Top Dead Center. There's some play at TDC so you'll have to get in the center of the play for an exact TDC. You can use a unsharpened pencil to help.

Just put the pencil down the spark plug hole so it sits on top of the piston and turn the engine until the pencil is fully extended. When you find TDC you will usually find the Prop hub magnet position around the bottom of the engine so turn the engine over.

You can use a small strip of blue masking tape to keep the hub from turning so you don't lose the TDC position.

For this demonstration I used my CRRC 50 engine. All calculations are in Metric - mm

2) Take the caliper and measure the diameter of the Hub the Prop Hub Magnet is on. On the CRRC 50 engine I measured 34mm. Multiply $34\text{mm} \times .244 = 8.30\text{ mm}$.

3) Measure from the Center of the Prop Hub Magnet to the closest edge of the Hall Sensor Body, for my Engine this length is 8.30mm as I figured it out in the equation. If the measurement matches, the engines Hall sensor is in the correct position for the engine to fire at 28 Deg before TDC. If not adjust the hall sensor by loosening the two screws on it's mount and move it to the distance you have calculated for your engine. Use Locktite on the screws to keep them from coming loose.



Measure the Hub Diameter
Calculate Distance for 28 deg

Make Sure the Magnet is in the correct position
If not - Adjust the Ignition Pickup

If your measurement doesn't sit exactly in the center of the hub magnet that's okay there's a slight margin for error.

A few degrees in one direction or the other makes no difference in performance.

**Equation - X (Diameter of Your Hub mm) x .244 = Y
(Distance from magnet center to Hall sensor Edge mm)**

.244 comes from the formula $28 \text{ deg} / 360 \times \text{Pi} (3.14) = .244223$

Your figuring the distance where the magnet should be at Top Dead Center (Displaced 28 degrees from the Ignition Pickup) then as the piston starts on it's down stroke the magnet will be under the pickup and the ignition will fire at 28 degrees before TDC. The explosion sends the piston down and turns the crankshaft which turns your propeller and your Flyin!!

Of course the RPM's - Revolutions Per Minute are how many times your engine fires and the crankshaft rotates in one minute. Idle is around 1200 - 2500 rpm's and High throttle is 7000 - 12000 rpm's

Jokes:

1) Jim decided to tie the knot with his long time girlfriend. One evening, after the honeymoon, he was cleaning his planes. His wife was standing there watching him. After a long period of silence she finally speaks.

"Honey, I've been thinking, now that we are married I think it's time you quit RC planes. Maybe you should sell your planes." Jim gets this horrified look on his face. She says, "Darling, what's wrong?"

"There for a minute you were sounding like my ex-wife.";

**"Ex wife!" she screams, "I didn't know you were married before!"
"I wasn't!";**