



HANGAR NEWS

NEWSLETTER FOR THE FIRST WEEDWACKER
AEROSQUADRON
AMA CHARTER # 1651
June 2022

First Weedwacker Aero Squadron
P.O. Box 2044
Lakeside, CA 92040

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Safety Officer Ron Keith

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Dick Milhausen Gary Rold
Tim Peterson

Wings Over Gillespie Liason:
TBD

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Jeff Coskey, Butch Weiser,
Bruce Allan, Larry Bagalini and Keith Miller

HANGAR NEWS is printed for the members of the
FIRST WEED WACKER AEROSQUADRON and its
contents do not necessarily reflect the policies of the
club. Editorial deadline is the 15th of each month.
Articles, news items and classified ads should be sent
to Don Westergren, 3942 Calavo Dr., La Mesa, CA
91941.

Articles originally published in this newsletter may be reprinted
and published by modelers and club newsletters. We ask that
credit to the author and this newsletter be acknowledged in the
reprint. We will do the same.

CLUB FIELD: Cactus Park (East), Ashwood St. (1/4 mile N-E of
El Capitan High School) in Lakeside, CA. Please be sure the last
flyer to leave locks the pin box and the gate..

R/C Schedule 2022

May 28 Sat Scale Fly-In + BBQ, Cactus Park
June 11 Sat Fun Fly + BBQ, Cactus Park

Scale Fly-In Rescheduled
May 28, 2022

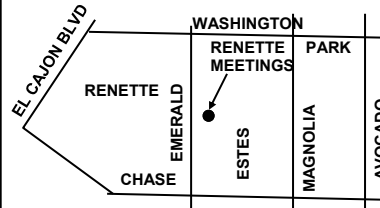
OK, This notice is a little late, since this newsletter is being
published after the original scheduled date. Hopefully you
read this newsletter in time to support the May 28 date.

Note that a Fun Fly is scheduled for June 11, 2022. So our
club activities are back on the new schedule.

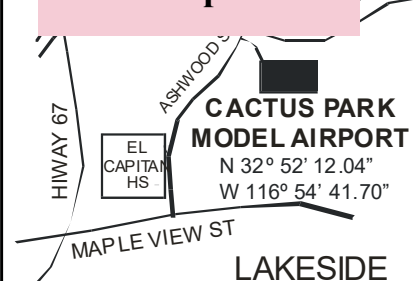
**DISCOUNT
HOBBY
WAREHOUSE**

**EL CAJON
HOBBIES**
LAND ★ AIR ★ SEA ★ GAS ★ ELECTRIC

**NEXT MEETING:
Tues. June 7, 7:00
PM at Renette Park,
El Cajon**



Field Is Opened





Hangar News

Meeting Minutes May 3rd, 2022

Bruce Allen

The meeting on the May 3rd, 2022, was called to order by the club Vice President at 7:00 PM and the membership recited the Pledge of Allegiance in the direction of the flag provided. In attendance were fifteen, including board members, Secretary Bruce Allen, Vice President Jeff Coskey, Treasurer Scott Graupmann. The President Keith Miller was unable to attend.

Opening Comments

(Be sure to add your attendance raffle ticket to the tub for the drawing at the January banquet include your name)

Ron's Tips! (NEW) If you have a useful tip let Ron know & you could get a valuable Raffle ticket!

Guest/New Members, Please add to April News Letter "Guest John Gruber"

Approval of Minutes in last month's Hangar News

Proposed: Bruce Allen, Second: Ron Keith Unanimous

Treasurers Report

May Expenses and Income

Date	Item	Amount	Total
04/05/2022	Balance		\$10,756.10
4/5/2022	Food	(170.46)	\$10,585.64
4/5/2022	Raffle	(750.00)	\$9,835.64
04/21/2022	Site Services	(381.57)	\$9,454.07
4/22/2022	Waste Mgmt	(110.09)	\$9,343.98
4/6/2022	PayPal	532.77	\$9,876.75
4/22/2022	PayPal	74.77	\$9,951.52
4/28/2022	I Power	(215.28)	\$9,736.24
5/3/2022	Deposit	80.00	\$9,816.24
	Net	(939.86)	
	Income	687.54	\$9,816.24
	Expenses	(1,627.40)	

Proposed: Ron Keith Second Ken Lawrence Unanimous

Safety Report

Ron Keith - Watch out for snakes! Make sure someone with a cellphone is aware if going into a long grass area etc take a stick from the gate! If bitten call 911, keep arm level with the heart & stay calm.

Tabled Business

"There was some work done to fill the pot holes in driveway portion to the west. Additionally some fill of smaller gravel and dirt was used to level a portion of the runway of overrun area to the left to improve the transition past the cones.

Proposed: Richard Brown Second: Fred Miller Unanimous.

Upcoming Events

Note: Keith on vacation 20th May through 5th June.

Check the Calendar at our Website <http://www.weedwackers.org/ww/>

Field Day – Sat May 14th,

Mower Blades on order, expected this week. Need Mower inspection during blade replacement to avoid problems on the 14th.

Field Closed for it. Spray weeds on the West End?

Scale Fly-In – Sat May 21st. (Note Changed to Sat May 28th)

Art Flores is Event Coordinator

- Budget is approved
- Food \$200
- Raffle Prizes \$750
- Plaques \$100 (complete) *See
- Total \$1050

-Cook: Ron Menu: Hamburgers & Hot Dogs
-Someone needs to take custody of "Boom Box" from Keith? Should someone pick it up from Keith?

Raffle: Bruce will sell tickets as well as check Pilots in.

*Discussion Notes

Art brought to our attention that the Scale Fly-in flyer still had an award for a People's Choice aircraft on the flyer. Unaware of the history and changes after the last events, Fly-in and Banquet.



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Jeff presented this for a vote, which was split and he opened a discussion on reevaluating keeping the People’s Choice Award. During the discussion, there were two good points view expressed in favor of keeping the People’s Choice Award, this time and in the future if it was easier to manage.

After hearing the views and having no decision for or against, Jeff volunteered to manage the People’s Choice Award category to relieve the judges’ workload during the event. A revote resulted with the membership agreeing to keep a People’s Choice Award.

Firefighting / Safety Training?

- Ron Keith
- May 28th, OK?

Fun-Fly Jun 11th

Keith will be back in time

Storage Roof

Dave Pothier has 22 Sheets of siding, on site. Still looking for volunteer to provide plans for a slanted roof design. Needs to be cut down to size. Previous meeting allocated \$600 to purchase Lumber/supplies to complete the job. Coordinator Mark Lukens, and Jeff Coskey will meet next Saturday to best evaluate roof design plan to create bill of materials.

Storage Unit charging system – Needs inspection installation once the Roof is complete.

Field Rules

21. Charging of Lithium Polymer Batteries (LiPo) at Cactus Park shall be in accordance with the posted Weedwacker Lithium Polymer Battery Charging protocol (and should be followed when charging batteries of any type).

Runway cracks.

Magic Crack Filler experiment started was checked, it works though needs finesse in its application and is costly.

G Scott Paving have sealer at cost in 5-gallon cans.

Jeff spoke to Keith to OK spending \$200 for special tools to make the job easier. There is a V Shaped squeegee tool on a pole that can prevent the need to kneel.

Mark Lukens – Said he would check in the old MRCF shed as he believes there may be tools in there that could be useful.

Option for a Hot Asphalt Melt Crack Fill Machine, uses Propane to melt rubberized crack filler & apply it, an example below:

There are many of these types of machines out there, this just one example. \$1,299 from Amazon with 6 cubes of filler!



The Asphalt Company that coated our runway last quoted us in excess of \$1500 for crack repairs prior to resurfacing. If we purchased this machine, we could use it regularly when cracks appear vice every 3 years and it could save money and runway degradation in the long.

Each cube of asphalt can cover 1000-1500 ft. of cracks for about \$60.

Yes, there is danger in the operation of this machine and all safety precautions for preventing burns need to maintained at all times.

Good of the Order

- Other County Club links:
- Silent Electric Flyers of San Diego
- Lake Poway Skimmers
- Chula Vista Model & RC Club
- Palomar RC Flyers

Mark Lukens: Has the ability to print 3D parts, contact him for more information. He showed a couple models using 3D parts.





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President's Message June 2022



Flagpole Going up – Last year we acquired a hinged flag pole from MRCF. The base platform was well anchored into the ground at Miramar, so Jeff lopped off the interface plate at ground level and welded it to a new anchor post. This month, Jeff, Art and Vernon (and likely a few others) embedded the base into a 12" x 24" deep hole. The concrete set up pretty quickly and the pole was erected the next day. The base/pole are hinged to allow the entire pole to be lowered to man-height for flag installation.

Next steps include acquiring a flag with appropriate shackles, and possibly a solar-powered light for the top of the flagpole. It's undecided at this point if we'd leave the flag up 24/7 (lighted), or raise it only during special events.



Ken Lawrence had two models to show

Speed Limit coming into the Pits!
Please be careful driving into the Pits keep the speed down to around 7 MPH. There will be a Sign installed soon.

Drawing for Free membership
Tim Fredrick

Raffle
No Raffle today

Meeting finished 20:13hrs

NOTE: I have Video for Mark Lukens & Ken Lawrence which I will put up on our website as soon as I can (Bruce Allen)





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Flying Site Improvement Grant – Denied

A few months ago, we submitted our application for the AMA's Flying Site Improvement Program based on our expenses of over \$3,800 for last year's runway sealing and striping. Our application was submitted for \$957 (a capped percentage of the gross). Unfortunately, our application was denied.

From: Austin Perlee
<austinp@modelaircraft.org>
Date: 5/2/22 08:00
To: KEEFERM@COX.NET
Subject: 2022 Flying Site Improvement Grant Results

*Dear First Weedwacker Aero Squadron,
Thank you for your recent application to the Academy of Model Aeronautics for the 2022 Flying Site Improvement Grant. The decision-making process was a difficult one this year due to the high number of quality, worthwhile applications we received.*

Unfortunately, your club's application was not selected for funding this year. This action does not reflect the value of your site improvement project. We simply received requests that exceeded our available funds. We appreciate the time and energy you put into preparing and submitting your application.

We encourage you to submit an application in the future if you have applicable projects. If you have any questions in the future, feel free to reach out to Foundation staff at foundation@modelaircraft.org or at (765)287-1256 ext. 137. We wish your club success in all your flying endeavors.

*Best regards,
Austin Perlee
AMA Foundation Donor & Programs Specialist*

Building and Flying:

Another amazing save by Steve Shepersky! He made demanding recovery when a new pilot got way downwind and started yelling for help. When Steve got to the pilot's station and took the transmitter, the ailerons and rudder were backwards!! Steve was able to bring it back to the runway for the save! He says it was "challenging and fun". OK, so I just thought of a new Fun-Fly

event..... OK, so maybe not.

Onboard Twin-Engine Paralleling – You may recall my son Jeramy and I recently acquired a B-25 Bomber, built by a gentleman named Frank Burke, and which we acquired from "Mitch" Mitchell. Having twin OS AX-55 2-stroke engines is a risk, particularly being mounted upside-down. Using needle valve settings alone is tricky. Best practice is to tune each engine's needles independently and hope that they behave approximately equally over the range of throttle positions. Jeramy worked through challenges getting the two engines to run reliably, and he suffered one engine-out landing. Fortunately, that was the LEFT engine which was ideal for a right-hand emergency landing pattern. She came down perfectly.

Jeramy's solution for the instabilities was to install an Arduino microcontroller board into the model along with a Hall effect sensor on each engine. The Hall sensor uses a rare-earth magnet embedded into a spinner backplate behind the propeller. He also wired up and printed mounts for a the fixed portion of the Hall sensor directly aft of each engine magnet plate. The Hall sensor generates a pulse every time the magnet passes in front of the sensor, providing an RPM input signal to the Arduino.





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The engine speed signal from each engine is fed to the microcontroller as well as throttle input from the receiver (from the throttle stick). The microcontroller processes these inputs to send individual throttle output signals to each throttle servo. In a calibration mode, his code establishes an RPM slope curve based on throttle input from the receiver over the range of the throttle stick. When the calibration mode is complete, this curve is stored in the microprocessor. During automatic operation, the microcontroller uses the curve for the first order of servo positioning based on Tx throttle input. This gets the engines really close based on throttle stick alone. To finely match engine RPM, he then uses PID algorithms (proportional / integral / derivative) to match the engines within just a couple hundred RPM. If one sags, its throttle opens and the other engine's throttle closes (very small bits at a time) until they come into balance again. We observed that the engines come into balance within about 5 seconds of a throttle change.

Additionally, he uses the microcontroller to control the on-board glow system. The logic is 1) if the props aren't spinning, the onboard glow is OFF; 2) It turns the glow system ON once it detects prop motion past the Hall sensor (a hand-flip or starter motor is turning the props); 3) the glow is ON whenever the engines are below a certain RPM (I think it's 3,000), and off above that; and 4) when above idle speed, if the RPM of the engines differ by more than around 400 RPM, the onboard glow turns ON in case one of the engines is slightly too rich for that RPM. This thing sounds AWESOME in the air!

This Time Last Year – The CONEX box donated by the MRCF club was moved onto our location.

Recent Events

Our turnout for a 1-hour **Field Day** was pretty good (on Sat 5/14). Bobby took the lead on cutting down the brush between the bare-wire and chain link fences, making it MUCH easier for those of us who have to chase an errant landing out there. Thanks Bobby! Mark Huyser and Ron cleaned up the picnic area and scrubbed the tables

in preparation for the Scale Fly-In. Richard Brown whacked and blew a ton of weeds. Jeff, Art and Vernon, as mentioned above, installed the flag pole. Todd Nickol, Pete Pease and “Mr. Bob” cleaned of all of the work benches and cleared out the webs. I know I saw Lester on site, and there was another whacker running so I apologize if I missed recognizing you. Thanks to those who participated!

Armed Forces Day Scale Fly-In – Being that I'll not be able to attend, I'll ask the remaining Board members and Event Director to report on the event.

Upcoming Events –

Sat 28 May, Safety and Firefighting Training
9am-10am at the field

Sat 11 June, Fun-Fly – I hope to add a couple of events we haven't run in a while – the Limbo and the Climb-n-Glide. The Limbo can be catastrophic, so we'll see how many guys wanna see just how “low you can go”. The Climb-n-Glide is a short engine/motor run followed by a dead-stick landing for points.

Sat 19 June, Father's Day Swap Meet at DHW.



New members: We didn't have any new joins in May, so we're unchanged from last month. Our membership consists of 112 regular paying members, 13 Juniors (under the age of 19), and five lifetime members totaling 130 strong. There are 23 holdouts from 2021 that haven't renewed yet, a few of which I'm confident will return when the bug bites. We're 11 to 91 years old, averaging 58.69.

See you at the field -
Keith



Fun Fly— June 11th, 2022

Fun Fly & BBQ

Possible Events:

- Limbo!
- Climb-n-Glide
- Taxi slalom
- Jelly Bean Haul
- Bomb Drop
- Can-Can
- 7-11 Craps!
- Loops and Rolls (Flight Drill)

Classes: One class fits all

Prizes - The top three scoring pilots will take home some terrific prizes!!

Schedule:

9:15 Pilots Meeting and Safety Briefing

9:30 Warm-up and trim flights

9:45 Start the events

11:00 (approx.) - LUNCH

The field will be closed to regular flying from 9:45 until the event concludes, usually around 12:30.

Pick your plane carefully!

Events may require both good ground and airborne handling.

\$10 Entry Fee

\$5 for Lunch [Burger or Dog with chips and a beverage]

Participating pilots get a **FREE LUNCH!!**



CD
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