



Glitch Busters

December 2015



FREEZE FLY
January 1, 2016

SWAP MEET
January 16, 2016

NEXT MEETING
December 1 at 7:00 PM
at the Newark Senior Center

AMA #197

PREZ SEZ

The Advisory Committee for Registration of Unmanned Air Systems ignored the AMA suggested use of AMA membership and number system in lieu of the FAA registration system. So, it appears that we will be required to register as pilots and display the FAA issued number on our all R/C aircraft from 250 gm to 55 pounds. To me, it seems like a bureaucratic nightmare.

Our present agreement with DNREC reads: "Flying times shall be from 10:00 a.m. to one-half hour before sunset, but not later than 8:00 p.m."

We had a Special Use Agreement for electric flight until 10:00pm, but that has expired I will process a SPA after the New Year that will read as follows"

"Quiet electric powered models may be flown from 8:00 a.m. to 10:00 p.m.
Combustion powered craft may fly after 10:00 a.m. to one-half hour before sunset, but not later than 8:00 p.m."

We will then incorporate that wording in the next MOA, two years from now.

FROM THE EDITOR'S DESK

This month Bob Smith contributed an article and photos about the Arvada Aero Modelers Club. Be sure to check it out. I'm sure you will enjoy it.

Can you believe the weather this month? We had lots of cold, grey, windy days, but we also had a few days that were the exact opposite. I went to the field a couple Saturdays ago to photograph the flying activities. As it turned out the only activity at the field was me! I figured "what the heck" I was there anyway, so I took a couple photos. Strange how the weekends always seemed to have poor if not down right rotten flying weather. Mondays on the other hand were in general great for flying. We had a number of week days with light winds, temps in the 60s, and clear skies. On a recent Wednesday we counted 23 vehicles backed into the pilot area by noon. It was like that for a few days this past week. Lots of guys who would otherwise be at work managed to get some time off to take advantage of the incredible flying weather before it went away. The club retiree population was at the field in full force as well. Everyone hoping to get in a few more flights before the amazing weather went away (which it did only a couple days later). I hope that you too managed to get in some flying in while the weather was so beautiful.

The gadget minded might be interested in a project I'm working on: a thrust test stand. It is intended for use with electric motors, but might be useful for internal combustion motors as well. The test stand is (or hopefully will be) operated by a micro controller (Arduino) which will advance the throttle in preprogrammed steps and hold that setting for a preset length time before advancing to the next step. Once at 100% throttle the process will reverse stepping down to zero throttle. At each step the computer will log the following data to an SD card: RPM, thrust, current, voltage (pack voltage plus individual cell voltages), motor temperature and battery temperature. The test stand will make short work of determining which prop to use to get the best thrust, best speed (based on prop pitch and RPM), or best overall performance (best thrust and RPM for the least amount of battery power). It will also show how well my batteries are performing relative to each other. Ever wonder how much battery or prop you could put on your motor/ESC combination without going (too far) beyond their limits? It shouldn't be too hard to modify the program to know the limits being tested, and to stop the test if the limits are exceeded by a given amount. The sky is the limit. Well that's true in theory. Right now I'm limited by the sensors I use, and how much I can get out of them. If this project sounds of interest, please drop me and email or contact me at the field. If people show interest, I will report on the stand hardware, and electronics setup as well as my progress so far.



OCTOBER MEETING MINUTES

John Kirchstein called the meeting to order at 07:00 PM.

50/50 tickets are for sale.

New Members & Guests: 1 guest; Dwayne Ragin.

Membership Report: Loren Caudill gave a membership report. 156 members. John Kirchstein also reported that member annual stickers will be mailed starting asap.

Treasurers Report: Treasurer report read by Greg Schock.

No Safety report this month. No official safety report given from safety officer. Paul Bryk discussed a safety concern he had regarding the windsock and the demolition of his airplane.

Secretary Report. Minutes from the September 2015 meeting were read by Rick Scott and approved.

OLD BUSINESS:

New Garden RC event: Held Friday September 11 through Sunday, September 13th. Attendance was approximately 40 to 45 pilots. Weather was poor during the event, however spectator attendance was plentiful. Saturday night dinner was wonderful with lots of food for all.

Club Picnic will be held, rain or shine on Sunday

Fall Clean Up will be October 17th, Saturday

NEW BUSINESS:

Nominations are open for VP and Treasurer. Vickor Pugarelli and PJ McClurg nominated and accepted for the Treasurer position. Greg Schock accepted nomination for VP. Additional nominations will be accepted in the November meeting.

Mark Weiss discussed the takeover of the club swap meet. Mark and Greg will co-chair.

Discussion to mover the Heli slightly south and add layout for FPV racing.

John Kirchstein advised that Summit Aviation notification letter has been submitted to Summit officials, awaiting their acknowledgement of the flying site location and our

commitment to fly under the AMA safety code.
50/50 was won by Tony Albance

Meeting adjourned 7:37 P.M.

NOVEMBER MEETING MINUTES

John Kirchstein called the meeting to order at 07:00 PM.

Treasurer Report read by John Kirchstein.
October meeting minutes read by Rick Scott

New Members & Guests: 1 guest; Dwayne Ragin.

Membership Report: Loren Caudill gave a membership report. 156 members.
John Kirchstein also reported that member annual stickers will be mailed starting asap.

Treasurers Report: Treasurer report read by Greg Schock.

No Safety report this month. No official safety report given from safety officer.
Paul Bryk discussed a safety concern he had regarding the windsock and the demolition of his airplane.

Secretary Report. Minutes from the September 2015 meeting were read by Rick Scott and approved.

OLD BUSINESS:

John Kirchstein

- ✈ reports that he has not hear back from Summit Airport. A registered letter will have to be submitted
- ✈ apologized for missing the Clean Up date.

Club Picnic was a successful event. Well attended, almost ran out of food. Greg, Great Job.

Pavilion Wrap has been performed. Thanks to all that attended. Unfortunately rodents got into the rolls of wrapping material and chewed holes in it. We will need to buy new material next spring.

No safety report given this month.

Loren Caudill reported on membership. 2015 members is 166. Already have 22 registered for 2016

Swap meet: Mark Weiss reported the meet will be January 16th, from 08:00 A.M. till 1:00 PM. The contract with Newark Senior Center has been signed, we will have the 3 room meeting areas as well as the foyer. Details still being worked out. NSC will set up the area, WE are responsible to clean up. No rain date for this event. Scouts will serve food again this year. Email Mark Weiss for tables and volunteer.

NEW BUSINESS:

Nominations are open:

Office of VP: Currently Greg Schock is nominated. Additional volunteers/nominees? No additional nominations. Nominations were closed, Greg is approved for another term.

Office of Treasurer: Vickor Pugarelli and P.J. McClurg currently nominated. Additional volunteers/nominees? No additional nominations. Nominations were closed. Vote taken, Club Treasurer position will be filled by P.J. McClurg.

Show-N-Tell:

- ✈ Mark Liberti – Super Sportster ARF with 4 stroke
- ✈ Mark Weiss – Control Line Kit, covered with Silk Span, painted with Rust-Oleum., converted to electric. Running E-Flite 15 with CW rotation.

Night flying is currently not permitted at the field. John Kirchstein is working on renewing the agreement with the park.

Pete and Dave Malchione report WOD will be July 6th through the 9th, 2016

Bill Bouchard is working on an IMAC date for April

Heli over DE is slated to be held 2 weeks after WOD

Club Flying Filed Open House will be held the same day as the National Aviation Day, Mike Ronig discussed the need for wheelchair accessible porta-johns for the field. Greg Schock will contact the vendor.

50/50 was won by Mark Liberti:

Meeting adjourned 7:40 P.M.

ARVADA AERO MODELER'S CLUB - by Bob Smith

Arvada, Colorado: I visited the club on Saturday, November 24, 2015 on a sunny 63° calm day. I had visited this club last summer when I was here in Colorado and just happened to catch their version of Warbirds Over the Rockies. Quite impressive pyrotechnics accompanied their Warbirds in their reenactment of the Japanese attack on Pearl Harbor.

The attached photos visually describe their city-owned flying site and evidence of no trees to snag your wayward aircraft however over the horizon there is some very woody shrubbery than can conceal your downed aircraft with ease. I mentioned try installing those cheap plane finders and their eyes lit up after my explanation of how they work and where to obtain them.

The photo below shows their billboard sized welcome sign with excellent graphics. I asked if Tony Albence did their artwork and after their puzzled look I explained that he



was a very artistic member of our club. We all laughed after I told them it was an inside joke.

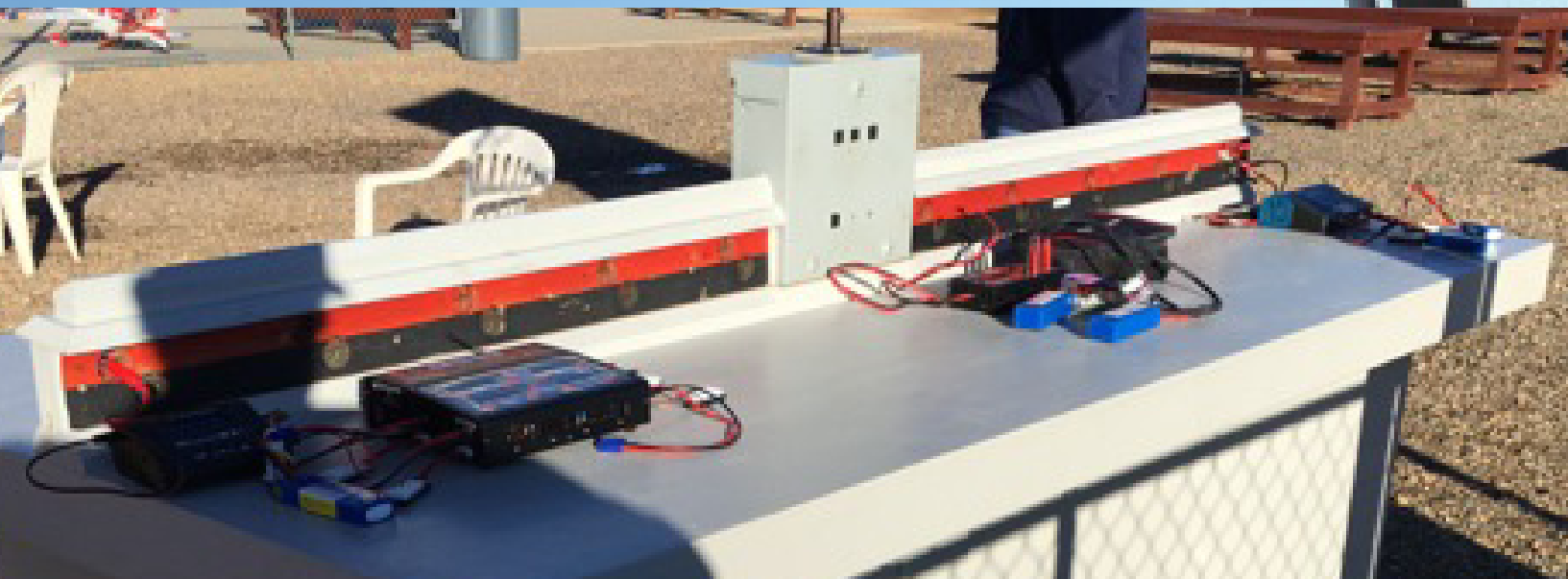
They have a weather indicator that is accessible via an internet connection. Winds have reached the mid 90's mph so knowing the conditions at the field save wasted trips for the membership.

The club feature a very interesting piece of equipment (next page). It is a 12 volt charging station and was cleverly designed by Dewey Louderback and Gary McGee. Two 250 watt, 48" square Hyundai solar panels provide the power to charge the 4 six volt deep cell batteries located in the cabinets below the charging table. The charging table has two large stranded copper wires imbedded in the 1" X 4" painted wooden board. Obviously Red is the positive wire and Black the negative. The small round holes in the picture show two ways to connect your charger. You can use your alligator clips or push your banana leads into the



provided female sockets. The cabinet is made of 2 x 4's, covered in $\frac{3}{4}$ " plywood, with 4" x 4" for the sturdy legs. Two reasons for this very heavy, sturdy cabinet. First, to support the batteries and second to make sure it doesn't walk away from the club house area. The entire cabinet was painted with Sherman Williams outdoor deck enamel paint. Club member Mark Whitehorn handled all of the solar electronics for the clubs charging station.

The remaining photos show the attributes of this fine aero modeling site. The upper small field with the fabric runway is used mainly by the park flyers and those with smaller aircraft. The larger field has a concrete runway, pit area and cyclone fenced pilot flight stands. Members can use either field but the larger planes stick to the concrete runway.

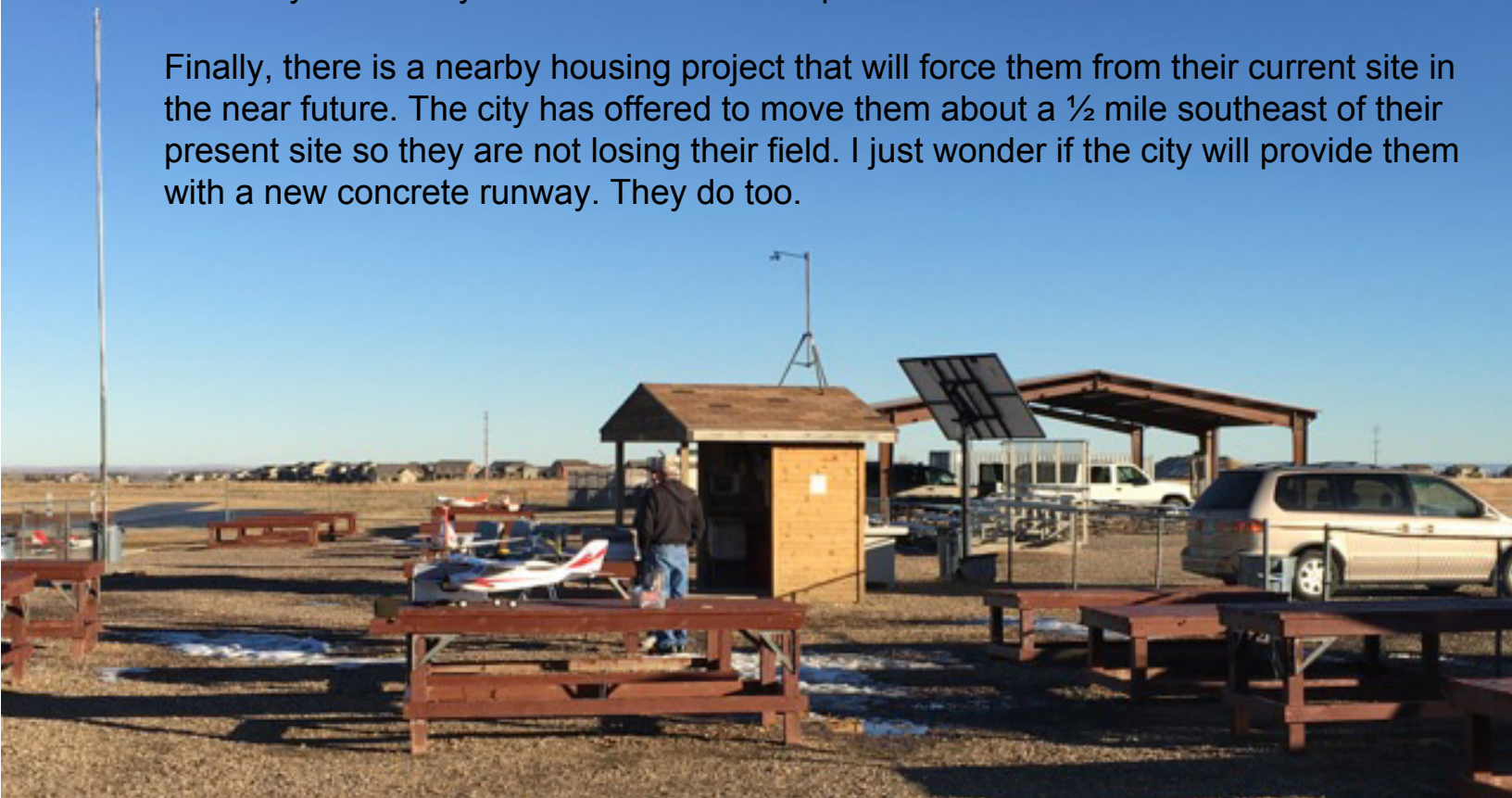


There is also a very large covered pavilion that provides fliers with tables to assemble and work on their aircraft. It is also used for food and vendor set ups during club sponsored events.

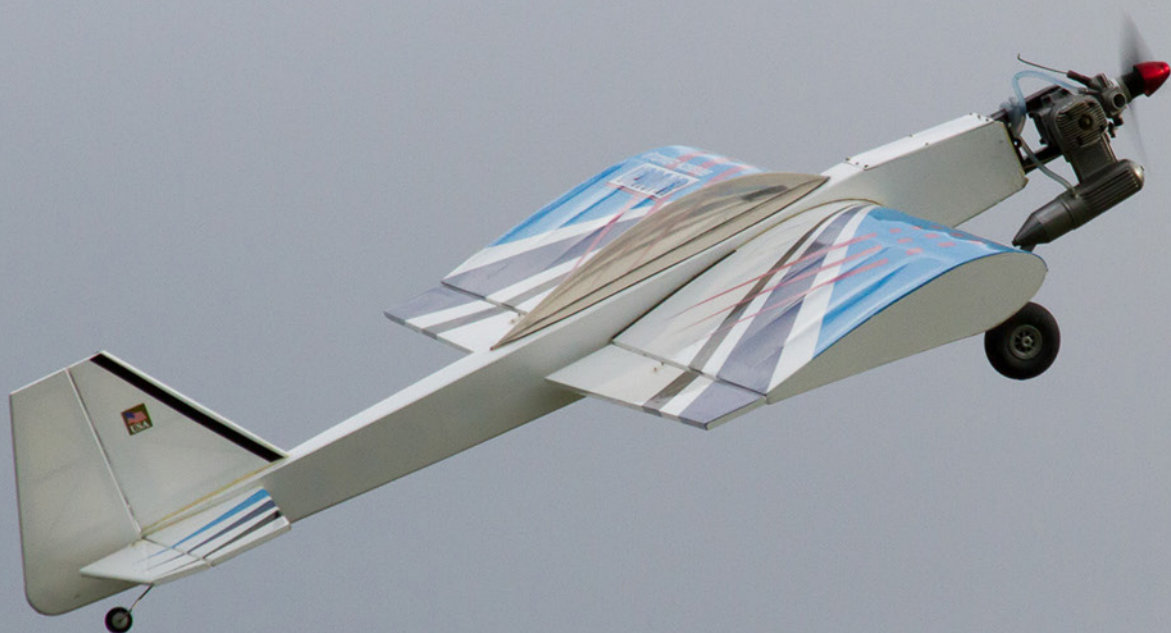
The photo with the brown dirt and eight foot wide breathable cloth circle is their new control line area. The close up is how the cloth is installed using the small auger type pins that keep the cloth taut and prevents fluttering.

I spoke at length with Gary McGee who is the Chief Flight Instructor for training and his lovely wife Kathy who is the membership chairman for the club.

Finally, there is a nearby housing project that will force them from their current site in the near future. The city has offered to move them about a ½ mile southeast of their present site so they are not losing their field. I just wonder if the city will provide them with a new concrete runway. They do too.



PHOTOS FROM THE FIELD

















Delaware R/C Club

FLEA MARKET & SWAP MEET

Saturday
January 16, 2016

Newark Senior Center

200 Whitechapel Dr, Newark, DE 19713

Tables \$15.00 each Confirm reservation by Dec 15, 2015

Table set up @ 8:00am

Doors open to the Public @ 8:30am

"Impromptu Auction" at the end of the event

Admission \$5.00 includes one raffle ticket

Food by Troop 30

Raffle prize and 50/50

For more information contact:

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We'd like to thank G-Force Hobbies for their generous support of our club:



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Glitch Busters

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