



ACADEMY OF MODEL AERONAUTICS CHARTERED CLUB #1255

SERVO CHATTER

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ANOKA COUNTY RADIO CONTROL CLUB, INC.

JUNE 2015

THE MEETING WILL BE THURSDAY, JUNE 18, AT THE FIELD!!

PRESIDENT'S CHATTER

Here it is, June already. Our next schedule events are a fun fly on the 20th of this month and the Warbird Fly-In on the 27th. The Warbird event will include lunch with potluck deserts.

If we have your email address you should have received a note about work party at the June 18 meeting. We will be replacing railroad tie parking blocks at the field. So if you have tools of destruction (pry bars etc) to remove old ties please bring them and also wear appropriate clothing for working with them. If we all have a go at it, we should be done in short time. In advance "Thank You" for helping. Daniel Lubrich set me a neat site that you chopper and fixed wing flyers might like to visit.:

<https://www.kickstarter.com/projects/350745213/krossblade-skyproowler-vtol-transformer-uav>

You can also Google "Skyproowler transformer drone" and watch it on YouTube. Enjoy and thank you for sharing this Daniel.

Virgil Okeson

ACRC MINUTES

Members present – 23

Visitor - Darrel Roberts

Treasurer: - Finances are in good shape.

Membership: - 96 members and growing.

Training: - Tom Janos is looking for trainers, trainee count is down.

Safety: - First aid kit is OK. If there is a need for more info or more product contact Brett Ohnstad

Events: - The electric fly had a good turn out. Spring Fly-In is May 30.

Bob Proulx is looking for participants for a demo at Booster Park Days from 1-5, July 18. For more info contact Bob.

Old business:

Revisited railroad tie replacement.

New business:

Nominations for board members.

An article in paper was brought to the attention of the members. It was about R/C planes in parks being a nuisance.

Show and Tell:



Bob Proulx brought his OV-10 Mohawk from black horse models. Bob overhauled the ARF, added retracts, sheeted the wing, added rudders, E flight 25 with 9x4 props, 3s 5000 MHz batteries. Covered with Monokote and painted it for scale appearance, with dry transfer decals.

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Dale Anderson brought a mystery plane, possibly a Kaos. The plane was glassed and painted red. The motor is a Turnigy with a 4s 6500, making it equivalent to a 60. It has Hobby King retracts and digital servos. The tail wheel has its own servo.

Raffle Prizes:

- | | |
|---------------------------|-----------------|
| Precision screwdriver set | Marc Tellevik |
| Plane playing cards | Darren Bitzer |
| Piece of leather | Dave Willemssen |
| BBQ sauce | Virgil Okeson |
| Mini quad | Darren Bitzer |
| Hand crank fuel pump | Ken Dinkel |
| Hot shot glow starter | Dan Stahn |
| Glow wrench | Tom LaRose |
| Chicken stick | Phil Vaughn |
| 24" servo extensions | Dan Stahn |
| Digital tachometer | Andy Noll |

Andy Thunstrom

ACRC EVENTS

Another ACRC Fly-In is in the books and it didn't turn out too bad either. With plenty of sunshine, and unfortunately, plenty of cool wind, the turnout was down from years past. We still had a pretty decent turnout though. I think I counted about 45 to 50 people being served in the food line and there was actually plenty of flying being done, so overall I'd call it a success.

Now on to the next event. On Saturday, June 27, we'll be having the ACRC Warbird Fly-In. On the "menu", besides plenty of beautiful Warbirds

cruising around, will be burgers, fresh cut home made French Fries, watermelon and the usual array of pot-luck salads and desserts.

That's right, I said POT-LUCK. That means that if you plan on attending please plan on bringing a salad or dessert item to share. We were a little "sparse" in the salad and dessert departments at the Fly-In, so we need to "Step it up" a little for this event. ACRC will be providing the burgers and fries and water. Our estimate for this event is about 100 people if the weather is nice, so get those Warbirds ready to fly and bring a dish to share as well.

Thanks everyone!!

Bob Proulx

MEMBERSHIP NEWS

The meeting this month will be the second one at the field for 2015. The road should be in good shape and hopefully it will be a good day for flying. The starting time is 7:00 PM and if you get there early you can get in some flying before the meeting. Remember that you should be using your current membership card to mark your channel and guests should be using their AMA card to verify their AMA membership.

Because of a recent By-Laws change nominations for the ACRC Board now take place at the May and June meetings with the election at the July meeting. The current members whose terms are up are Phil Vaughn, Virgil Okeson, Andy Thunstrom and Stan Zdon. The only nominations at the May meeting were for Virgil Okeson and Stan Zdon. At least two more nominations are needed to fill the available positions. Please consider serving on the board and becoming a FBM.

The nearest hospital is in Wyoming, MN and is the easiest to get to. Just take Hwy 22 (Viking Blvd.) east across 35W and turn right on Hwy 61. The hospital is about a block south of Hwy 22. If you have to call 911 for an ambulance they will want to know where the field is located. The road where we turn off of Hwy 65 is 197th and the

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address of Central Wood Products is 19801 NE Hwy 65, East Bethel.

The GPS coordinates of the field are:

45⁰ 19' 44.4" North Latitude
93⁰ 13' 52.2" West Longitude

On June 27 there will be a Warbird Fly-In. If you have a plane that has military markings bring it out to the field and fly. In July we will be having a members only Fun Scale Contest on July 11. The ACRC Pattern Contest has been canceled for due to lack of interest for the past two or three years.

THE NEXT MEETING WILL BE AT THE FIELD ON JUNE 18 AT 7:00 PM. Don't forget the Fun Fly on Saturday, June 20.

Stan Zdon

SOLDERING TO CELLS

C. L. Scholefield

Soldering to Ni-Cds is not a good idea. Try to use the welded tabs and solder to those if at all possible. Soldering to the positive button will have a very high probability of destroying the nylon seal. You just can't get the button hot enough to get a good solder joint without compromising the integrity of the nylon seal ring. This ring is under compression and raising its temperature will allow it to relax and the sealing properties are history.

If you can hold a penny between two fingers long enough to get a good solder joint with #18 stranded wire or braid, then go ahead and solder to your cells, otherwise get cells with solder tabs. Remember that nylon is a good insulator, electrical and thermal. There is no thermal path for the soldering heat to dissipate when heat is applied to the cover button of a cell.

I realize this flies in the face of all the electric flight "experts" that assemble their own packs but it is never the less fact. You have never seen a pack assembled by a cell manufacturer or any other pack manufacturer (outside of the hobby market) where connections are soldered directly to

a cell. There is a reason.

The Sanyo Cadnica Sealed Type **Nickel-Cadmium** Batteries Engineering Handbook states the following-

"Never solder a lead wire directly to Cadnica battery terminals. Soldering heat may damage the safety vent in the positive cap. After a terminal plate is spot-welded on the battery terminal, solder a lead wire on it."

Sanyo Twicell Sanyo **Nickel-Metal Hydride** Rechargeable Batteries Engineering Handbook-

"Never solder a lead wire or plate directly to Twicell batteries. The heat generated by the soldering may melt the insulation, damage the gas release vents or protective devices, cause leakage of battery fluid, heat generation, bursting or fire."

General Electric **Nickel Cadmium** Battery Application Manual-

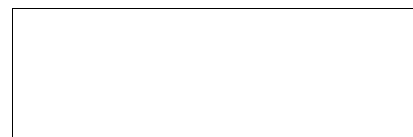
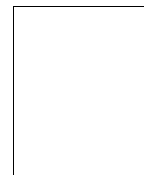
"Never solder directly to the nickel-cadmium cells, only to solder tabs or wire leads. A hot soldering iron placed directly on the cell is likely to cause seal ring and vent seal damage as well as damage to the separator systems."

First let me say that I am not on a crusade to stop the modeling world from soldering directly to cells in construction of packs. All that I'm trying to do is to alert modelers that there are some caveats they should consider in making the decision to solder or not. In the electric propulsion application and particularly on the competitive side, the reduction of pack resistance plays a key role in obtaining maximum performance. Direct soldering has been found as one means to achieve this. Soldering directly to cells that are destined for flight control operation is not justified and can compromise the reliability of the packs. These packs are frequently hidden away in the plane and are not available for inspection for any leakage and corrosion that may have resulted from damage to seals/vents from direct soldering that can compromise the reliability of the control system.



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CONTRIBUTORS THIS MONTH

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ACRC SPONSORS

King Kong Hobbies
Abraham Technical
Aerospace Welding
Cambridge State Bank
T & G Hardwood

*Deadline for the
next newsletter is:
July 1, 2015*

CALENDAR OF UPCOMING EVENTS

Thursday – June 18

- ACRC Meeting-At Field

Saturday – June 20

- ACRC Fun Fly #3

Saturday – June 27

- ACRC Warbird Fly-In

Saturday – July 11

- ACRC Fun Scale

Thursday – July 16

- ACRC Meeting-At Field

Saturday – July 18

- ACRC Fun Fly #4

Thursday – August 20

- ACRC Meeting-At Field

Saturday – August 22

- ACRC Fun Fly #5