



ACADEMY OF MODEL AERONAUTICS CHARTERED CLUB #1255

SERVO CHATTER

A PUBLICATION OF:

ANOKA COUNTY RADIO CONTROL CLUB, INC.

DECEMBER 2025

THE DECEMBER 18TH MEETING IS INDOORS AT CRCC!!

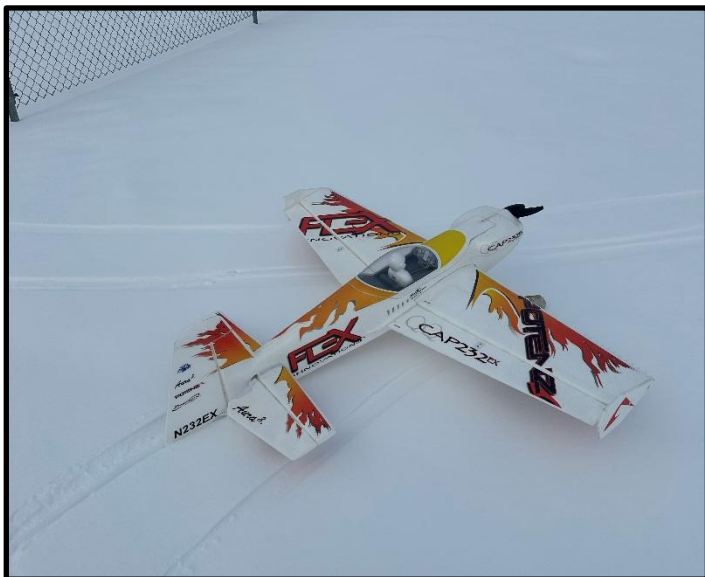
PRESIDENT'S CHATTER

Winter is here!!

Got a few flights in today

Pros for the day were: cold dense air, great snow for touch-n-goes, no wind so landings were from both ends of the field, my fingers didn't freeze, long wide runway!

Cons were: low flight ceiling and short day. So, the pros definitely win over the cons. I do enjoy the games winter flying.



Reminder to all that our December meeting includes a potluck snack so bring your favorite sweet or savory treat to share. I will put the coffee on.

Don't forget your show-n-tells.

Another reminder to get your applications in to stay current and be ready for the January first freeze-fly

Jeff Slater

FROM THE VEEP

3D Printing Takes Flight in the RC Airplane World

3D printing is rapidly becoming an essential tool for RC pilots, allowing builders to produce lighter, stronger, and more aerodynamic components than traditional materials alone. With improved filaments and refined slicer techniques, many pilots now rely on printed parts for everything from wingtips to full airframes. Both Cam and I have 3D printers and are frequently printing parts for our aircraft.

Materials That Matter

PLA+ – Great for non-structural components like servo trays, cockpit details, and wing jigs.

PETG – Heat-tolerant and tough, making it ideal for motor pods, canopies, and battery cradles.

ASA/ABS – UV- and heat-resistant for outdoor use; excellent for fuselage formers, FPV noses, and high-stress mounts



Nylon / CF-Nylon – Extremely durable; perfect for control horns, landing gear components, and hinge bearings.

Designing for Flight Loads

Airplanes put unique stresses on printed parts.

Orient parts so lift, thrust, and landing loads run parallel to layer lines.

Use 4–6 perimeters to create strong outer skins, with 20–30% gyroid for internal stability.

Reduce weight in tail components with 1–2 perimeter, low-infill prints to improve CG control.

Lightweight Printed Airframes

LW-PLA and single-wall techniques have unlocked a new generation of printed airplanes. Expanded-foaming filament creates stiff, ultra-light fuselages, while vase-mode wings with internal ribs can match or exceed foamboard performance. Builders can now experiment with airfoil variants and internal structures that were once impossible to fabricate at home.

Field Repairs, Fast

Printed spares mean fewer grounded flights. Pilots can fabricate replacement wingtips, hatch covers, landing gear fairings, and servo mounts in a single evening. Many clubs now share STL libraries so members can swap parts and customize designs freely. www.rcscalebuilder.com has an extensive library for subscribers.

On the Horizon

Expect further gains as multi-material printing and carbon-reinforced filaments become mainstream—promising tougher, lighter, and more aerodynamic aircraft components designed directly on the workbench.

John DeVries

MEMBERSHIP NEWS

As of the end of November, we had 96 members with the addition of one new member, Ronald Jesberg of Coon Rapids. He has several decades of RC experience. Welcome, Ron.

We are beginning the countdown for our 2026 membership renewal. Club membership expires on December 31, 2025 with a grace period running through January 31, 2026. Any renewals after 1/31/2026 will be considered a new membership with the appropriate increase in membership fee, so get those renewals in. You can either renew online or by mailing an application to me (see ACRC website for details)

There have been a couple inquiries on the 2026 Membership Cards. For everyone who has renewed their membership and are at the December 18th meeting, I will have your 2026 Membership Cards. For everyone else, I will mail them to you after Christmas.

The ACRC - Mingle Google Group has 10 current members. To be added to the group, just send me an email requesting to be added to the group.

Safe Flying,

Earl Hendricks

A LOOK BACK

DECEMBER 2007

18 YEARS AGO

Al Spearbecker, the Prez, made a couple of great suggestions:

Use a flight simulator over the winter, to keep your skills sharp.

A small computer fan placed on your workbench will keep those nasty CA fumes out of your eyes.

You know that you are addicted to R/C flying if you keep your transmitter manual in the bathroom.

The club pavilion roof was replaced with steel panels thanks to Darren Blitzler and a couple of worker bees.

DECEMBER 1997

28 YEARS AGO

Extensive meetings with the board members, Bobby Hoffman, and the contractor, were able to finalize the field drainage ditch changes.

These changes include a new ditch, running north / south, west of our parking area, multiple culverts will be added, and the ditch between the pit area and runway will be filled completely. Our field access road will be rerouted as well.

A long "New Aircraft Checklist" was published as a reminder to re-check your existing planes for needed repairs.

Tim Karash

ACRC MINUTES**Board members present:**

Jeff Slater, Marc Tellevik, John DeVries, Cameron Devries, Earl Hendricks, Mike Reinert.

9 Member present plus board

No guests

Membership Report:

93 members for 2025

Treasurer's Report:

Income: \$1346.00

Expenses: \$329.00

Safety Officer Report:

No Report

Event Coordinator:

The December meeting will be a "Potluck" event

All scheduled events for 2026 will be Sanctioned, with a rain date the following Sunday.

See Old Business for Event Calendar.

Club Fun-Fly events, tentatively, will be held on Tuesday afternoons. More details to follow.

Training Report:

No Report

Old Business:

2026 Event Schedule:

- | | |
|-------------------------|-----------------|
| • May 2 nd | Float-Fly |
| • June 13 th | Spring Fly-In |
| • July 18 th | Big Bird Fly-In |
| • Aug 15 th | Electric Fly-In |
| • Oct 3 rd | Fall Fly-Out |

New Business:

None

Show and Tell:

Jeff Slater brought a 1/4 scale Stinson SR 9

Earl Hendricks brought a handy MagLite Dtizuki Falshlight

Gary Smith brought a 1950's Heath Kit transmitter

Scott Oleson brought an OS 50 SX that he rebuilt following a piston ring failure.

Marshal Mills showed a mechanically mixed elevon arrangement on a Showbird-2

Raffle:

- | | |
|-----------------|-----------------|
| 1) Medium CA | Gary Smith |
| 2) Crimping Kit | Ryan Kontak |
| 3) Glue Caddy | Earl Hendricks |
| 4) Glue Caddy | Cameron DeVries |
| 5) Miter Box | Marc Tellevik |

Submitted by Tim Karash



CLUB JACKETS

We will be taking orders for club jackets at the December meeting. Checks will be deposited and orders will be placed after.

Also, if you have a jacket already, wear it again to the meeting for others to see.

Marc Tellevik

Streamer Combat Intro

My name is Marshall Mills and I am a retired FAA employee that has been flying radio control since 1982. I built my first Heathkit 8 channel transmitter, 8 channel receiver, and five servos on a 4-day Labor Day weekend.

In 2020 I visited a friend in Eau Claire that was flying foam planes with ~35-foot streamers attached that initially didn't interest me. Later that night I was watching TV and just couldn't stop thinking about the combat planes. I decided to give him a call and look into this closer. The next day we met again and I purchased two of his planes and got the prints to make more. I decided to show them at one of our SPMRC meetings and was asked if I had more or could build more which was the start of our Streamer Combat.

The plans are always available for anyone asking me for them. Be aware that we have modified and upgraded the plane plans to what we have now. In order to build them you need 2 sheets of DOLLAR TREE foamboard \$1.25 each and a hot glue gun (80 watts). The electronics flight pack cost around \$65-\$75 for everything including the batteries. Since I have sponsored the planes, I feel that I need to support them so I always have enough supplies for about ten planes.

Marshall Mills



Editor's Ramblings

A few notes: As mentioned earlier, don't forget to come to the December club meeting. Bring some food item to share with the other attendees. This can be something savory or sweet like a favorite holiday dish or treat. Also, I believe it was discussed to invite your spouses or significant others to come along and share in our holiday potluck.

Also, I did not receive an Event Coordinator article this month, but we do have the January 1st Freeze Fly on the calendar. This is a fun event to get in that first flight of the new year. Since we likely will have snow this year, bring your planes on skis and floats. Mike Reinert has promised to bring chili to help keep everyone warm from the inside out. Hope to see you there!

Finally, the blank spaces in this newsletter are intentional, although regrettable. I received lots of good content, but it took some effort to make the formatting work out. I appreciate your understanding.

Ryan Kontak

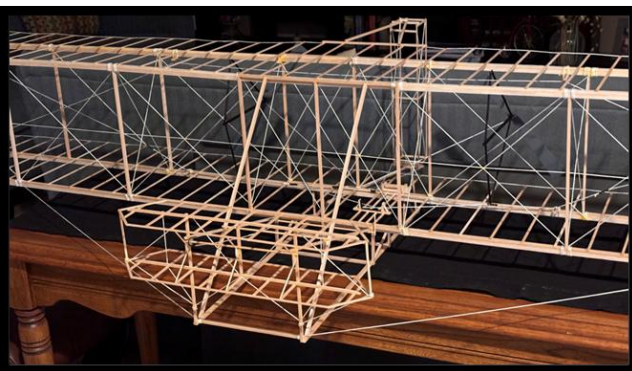
1903 Wright Flyer

Last January I decided to build a replica of the 1903 Wright Flyer from a kit that was meant to be a kite when completed. I decided to abandon the kite plan and go for the “scale look” of the plane that flew at Kitty Hawk. I followed the plans for the fuselage that came with the “model” but had to search the internet to see how the wings and rigging were assembled on the full-sized plane.



Dick Huber

Satisfied with what I found, the build process began. Titebond Wood Glue was used for the build along with lots and lots of clamps. The rigging was the most challenging part of the build but also the most rewarding when finished.



I wasn't interested in covering the model because I wanted the observer to see how the wing warping was accomplished. Most noticeably missing from the model are the engine, gas tank, and instruments. The wingspan is 6 feet. It's far from being museum quality, but it was fun to build.

SERVO CHATTER

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Earl Hendricks

Tim Karash

Jeff Slater

Marc Tellevik

Marshall Mills

Dick Huber

ACRC SPONSORS

King Kong Hobbies

Woodworking Plus

Blackjacks Asphalt

Rivard Companies

CALENDAR OF UPCOMING EVENTS

Thursday – December 18

- ACRC Meeting-At CRCC

Friday – December 19

- Indoor Flying in the Dome

Thursday – January 1

- ACRC Freeze Fly

Thursday – January 15

- ACRC Meeting-At CRCC

Saturday – January 31

- MARCEE Swap Meet

Dome – Blaine National Sports Dome
Hall – Blaine National Sports Hall
CRCC - Coon Rapids Civic Center

