



ACADEMY OF MODEL AERONAUTICS CHARTERED CLUB #1255

SERVO CHATTER

A PUBLICATION OF:

ANOKA COUNTY RADIO CONTROL CLUB, INC.

JANUARY 2016

THE MEETING WILL BE THURSDAY, JANUARY 21, AT RIVERWIND!!

PRESIDENT'S CHATTER

The ACRC board is reviewing club activities concerning field equipment, training, drones and club rules and bylaws. Items being reviewed are where rotary aircraft may be flown and if the club rules and bylaws should be brought more in line with AMA guidelines. I will not go into details here, come to the meetings and be a part of the decision process. See the other board member's columns.

We have all heard about FAA requiring registration of everything weighting between a half pound to fifty-five pounds. That will require a person flying such aircraft to be registered with the FAA and have a registration number. That number must be marked on or in all their aircraft with name and address. This is in addition of the AMA membership requirements we are already doing. ACRC now will need to see your FAA registration number and AMA membership before issuing ACRC membership card. ACRC may also have to inspect aircraft at the field to make sure they comply with FAA and AMA requirements.

Also, do we need to set a schedule for replacement of furnishings at the field?

Virgil Okeson

FROM THE VEEP

I've noticed that any kind of aircraft without a fixed wing is now labeled as a drone. I guess the term drone is easier than "small-unmanned-remotely-piloted-airborne-photographic-platform".

YIKES! Now I have to learn an entire new vernacular just to stay abreast in this ever-changing hobby.

Drone: [drohn]

Noun

1. The male of the honeybee and other bees, stingless and making no honey.
2. An unmanned aircraft or ship that can navigate autonomously, without human control or beyond line of sight.

AKA:

- sUAS small Unmanned Aircraft System
- RPV Remotely Piloted Vehicle
- FPV First Person View

See also:

Quads, Quadcopter, Multi Rotor

In the nearly 30 years that I've been involved with radio controlled aircraft, lots of things have come and gone. Well, maybe not gone, but not what it once was. Turnaround pattern, standoff scale, twelfth scale combat, free flight, slow survivable combat, park flyers, and control line. These forms of model aviation were all **THE THING** in their day. Some are gone, some have morphed into something else, others are still here, held on by small but very loyal factions. Will drones become the next turnaround?

Not all that long ago, you could attend a pattern contest nearly every summer weekend within our 3 state area. Now you may have to drive THROUGH 3 states just to get to a contest!

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As they say: The only thing that is constant is change. Technologies change which then drives product change, which then drives demand, which then drives production, mass production drives down cost. Sheesh!

Today's radio systems are light years from the early days of a shoebox-sized contraption with a rotary phone dial used to activate just rudder movement.

Change, change, change.

Power systems have evolved as well, with incredible reliability and performance. Now, however, I'm thoroughly confused about electric power. Items like windings, voltage, kV, and watts to mention a few. Throw in propeller possibilities and my 3 remaining brain cells are spinning at warp speed! Ask 100 electric power "experts" which motor / battery / speed control combination I should use to replace a nitro motor in my Whiz Bang Special, and I get 100 different answers. Why does this have to be so difficult?

So what's the point to all this ranting? Change is inevitable, that is for certain. Do we forsake what is known and comfortable for something new and shiny? Conversely, do we become entrenched Ludites and say no to anything "abnormal"?

I suggest caution with a bit of skepticism. Reminiscent of driving on an icy road: no sudden maneuvers.

Tim Karash

ACRC MINUTES

12/17/15

Meeting called to order by President Okeson

Board members present: Virgil Okeson, Tim Karash, Marc Tellevik, Bob Proulx, Brett Ohnstad, Bruce Martin.

11 members present plus new members Daryl and Jesse Roberts.

Bob Proulx informed everyone that Indoor flying this season is at the Brooklyn Park golf dome. See MARCEE website for details.

Nothing new from Training Coordinator, Tom LaRose.

Brett Ohnstad brought an information sheet from the AMA. They recommend that all AMA members wait on registering their drones with the FAA until February. The AMA and FAA are working to resolve the issue of overlapping registrations.

Old Business

Replacement lawn mower discussed. Issue of used vs. new unit, pros and cons. Purchase of new would drastically reduce our savings account and may attract thieves. Adding locking doors to the pavilion or purchasing a secure shed may arouse more curiosity and add to the expense.

New Business

Drone quad racing has become a fast growing segment of radio controlled aircraft. Racing events are popping up all over the country. We may be able to attract more members by hosting such an event. Club and landowner permission as well as liability insurance will need to be secured for any event. More research needs to be done.

A FCC license will be required for drones with most cameras. Some smaller cameras are all ready certified by the FCC. A 35 question test is required for the license, but a study guide provides all the answers.

Show and Tell

Ron Fichtner brought a scratch built Emeraude experimental. This is a slightly larger version of his original attempt in hopes that it flies better. Ron made his own mold for the vac-u-form canopy. It's powered by a 25 size E-Flite motor and 3 cell battery.

Show and Tell

- | | |
|---------------|---------------------------------|
| Bob Barton | Leatherman multi tool |
| Andy Knoll | Aircraft inspired bottle opener |
| Bruce Martin | Screwdriver set |
| Tim Karash | Thin CA glue |
| Andy Knoll | Buck Bar |
| Virgil Okeson | Thick CA glue |
| Marc Tellevik | LiPo battery bag |
| Jeff Voelz | Stack of clamps |

Tim Karash

Board Minutes - 11/17/15

Virgil Okeson suggested several ways to keep raffle prize costs down. One thought was to ask club members for prize donations: unwanted items, or “white elephants”. Others were McFoamy Park flyer kits as prizes; either basic kit or with 3gr servos and 4 channel receiver included. Delta wing Blue Wonders are always popular.

Lawn mower replacement discussed. If a new unit is purchased, it may require a membership assessment to help cover the cost. This assessment would complicate new member dues. Tim Karash is still searching for a usable replacement.

Club flying site rules, safety regulations, and field courtesy list should be published annually in the newsletter.

Tim Karash

ACRC EVENTS

It’s Mid-January and winter seems to finally have arrived!! I’m sure we’re all glad that we had warmer temps for the Freeze Fly. I made it out to the field (almost completely forgot about it!!) about 8:45 and there were already a few hearty souls ready and waiting to brave the elements. I had to leave after about 45 minutes, but at that point there were already 6 or 7 guys flying. I’m not sure how many actually showed up in total. I’m hoping to get a final report at the meeting. Sounds like Bob Svare provided some hot soup to warm up the pilots on the inside and there was even a propane heater set up inside the pavilion thanks (I believe) to Tom. Anyway, thanks to all who provided time and supplies to make the participants a little more comfortable.

It sounds like the Dome Flyers are making a good showing so far this year. Even with the rather odd flying hours required, it sure beats not having any place to fly at all. I still plan on making it out to at least one of the flying sessions this winter just to see what it’s like.

Also don’t forget about the various auctions and swap meets that are on tap for this winter. I know

I always enjoy seeing old friends at the MARCEE swap meet while I’m searching for bargains and those “hidden treasures”. See you at the meeting.

Stay warm and build, build, build.

Bob Proulx

ACRC TRAINING

We are working on the new flight-training checklist to be ready soon. It should make it easier on instructors and the trainee. We hope to have an AMA Certificate for new pilots after their solo flight. The club cost from the AMA is \$ 1.00 each. This is a proposal to be presented to board.

Instructors on board so far.

- | | |
|----------------|--|
| Bob Moser | Lead Flight Instructor |
| Andy Thunstrom | Flight Instructor |
| Neal Olsen | Plane setups, club and
AMA rules, Ground School
Instructor |
| Tom LaRose | Instructor Coordinator
Flight Instructor |

ACRC is still looking for a few more Flight Instructors. If you have thought about it or would like to help out, Bob Moser would like to have a “Train the Instructor” night prior to the start of the 2016 Wednesday Night Training. Dates will be set later. This would be a great time for anyone who has thought about being an instructor to pickup valuable information and see if it is something you are interested in.

A Program to Look at:

The AMA sponsors the Take off And Grow (TAG) grant program, administered by the Education Department and awarded by the district vice presidents. AMA chartered clubs and chapters are eligible to apply under the following guidelines. Awards are made to an AMA club or chapter, which will also assume responsibility for the filing of all program reports with the AMA Education Department as outlined . Grants are limited to a maximum award of \$1000. This grant is awarded in April after selection by the district vice president. Proposals must be postmarked by February 1 of each year. Proposals may **not** be submitted electronically.

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Drone Registration Scam Sites:

Shortly after the drone registration task force announced their recommendations to the FAA, fake registration websites began to appear. These sites are scamming model pilots to register in an attempt to steal personal and credit card information. Many of these fake sites look credible or appear to belong to the FAA. The FAA recently warning pilots to avoid sites that offer paid services assisting model pilots in the registration process in a post at

<http://www.faa.gov/news/updates/?newsId=84245>

Reports to the AMA about these scamming sites have increased since the FAA UAS Registration site launched on December 21. AMA also suggests that members hold off on registering with the FAA until advised by the AMA or until the FAA's legal deadline of February 19. We are continuing to pursue legal and political remedies to address the registration requirement.

In closing, a THANK YOU to all that made the Freeze Fly a success, including those that provided the HOT FOOD every one enjoyed. Also to Ryan Dalve, my grandson for snowblowing the pilot area and the runway approaches, and for setting up the heaters. It made it easier to get around and took the chill off in the shelter!

I am always looking for ideas concerning flight training. If you have some, drop an e-mail to

instruction@anoka-rc.com

Tom La Rose

MEMBERSHIP NEWS

SEASONS GREETINGS AND HAPPY NEW YEAR!!

The Freeze-Fly is over and but I did not make it. The temperature was too much for my aging body. I stayed home and finished my Balsa USA Nieuport 28.

This is the last month that you can rejoin for the regular \$50.00 dues. Membership applications were included with the November and December newsletters that were mailed out. Members that

read the newsletter online can download a membership application from the website. After January 31 a \$5.00 late fee will be added to your dues. This will also be the last newsletter that you will receive via snail mail because it is part of last year's membership. If you don't want to miss any of the newsletters, be sure you renew on or before January 31. If you don't have your AMA by the end of January you can send me your application and dues and I will mail you your ACRC membership card when you verify your AMA.

TCRC ANNUAL AUCTION - The TCRC auction will be on Saturday, February 13, at Cross Point Church on 98th and Bloomington. Registration starts at 7:30AM and the auction starts at 9:30AM. Go to the TCRC website for more information:

http://www.tcrconline.com/pages/auction_seller_registration.htm

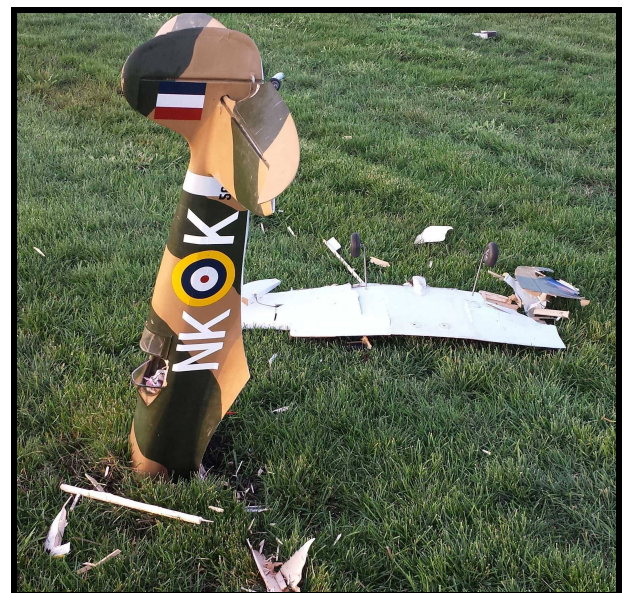
Both Big Sky Hobbies and Hobby Warehouse will be at the auction to take your hard earned money.

The next meeting will be at **Riverwind** on January 21 at 7:00 PM.

Stan Zdon

2015 CRASHER AWARD

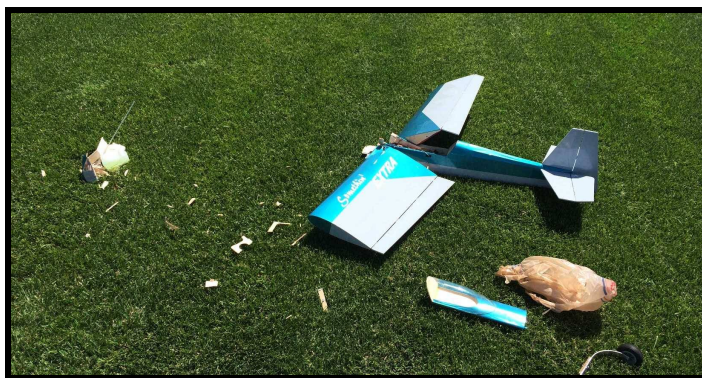
Only 3 crash photos were submitted this year. We can vote on the best crash at the meeting. Andy Thunstrom had the first crash at the 2015 Freeze



Dan Stahn's Spitfire



Gary Smith's 4 Star 40 June 21 11:59



Jeff Smith's Somethin' Extra June 21 2:02

TIPS & TRICKS

Cooling Your Engine

If your engine is running hotter than you would like, how can you cool it down? Most people make the mistake of thinking more is better when it comes to the air inlet at the front of the cowl. This is a common error and, while it seems logical, the reverse is actually true. To properly cool your engine, you need more outlet area, not more inlet area. You want at least 2:1—preferably 3:1—air out to air in ratio. Otherwise, it makes a dam and the air cannot come into the cowl because it has nowhere to go out of the cowl. If your engine is not cooling properly, try blocking off the other air inlet or opening the belly of the cowl further.

Wing/Tail Alignment

Get an old telescope antenna (the same type as found on transmitters). Use it as an adjustable-length measuring rod to compare critical measurements on airplanes during construction. This can help you compare the distance from one wingtip to the stabilizer and to make sure this distance is equal on both sides of the airplane. This ensures that the stabilizer is parallel to the wing.
—Both from the South Bend Radio Control Club

Soldering Advisories

Someone suggested that the use of a soldering gun was safer than other types because it would not roll off the workbench and burn you. It should also be mentioned over and over that soldering guns have a very strong alternating current magnetic field around the tip. When brought in proximity to electric motors and servos, this magnetic field de-gausses (demagnetizes) the magnets inside the motors and servos and causes permanent damage.

I have seen several people come to the flying field with a new electric-powered airplane that does not have enough power for flight. When asked if they soldered the wires to the motor with a soldering gun, the answer is usually “yes.”

Also you should never stick the tip of a soldering gun into the airplane's radio compartment while soldering pushrods and etc. as it will presently damage the motors inside the servos.

If you must use a soldering gun, you should stay well away from electric motors and servos, meaning at least 24 inches just to be safe

—From the Rogue Eagles RC Club, Medford, Oregon

Those Handy LEDs

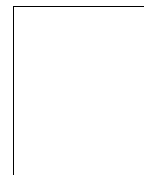
Those ubiquitous light emitting diodes (LEDs) are so handy they need to be used in even more places. Every RC transmitter should have a prominent red one on its faceplate to greatly reduce the incidence of switches being accidentally left on. And you can also use one exposed up front in your ship to assure that your receiver is or is not turned on. All you have to do is plug one into an unused channel on your receiver. And for the coil protection on a spark ignition system, a red “on” LED up front is useful as well. Not all wall chargers have them but they should! Dubro Ni-Starter chargers have handy LEDs, but for some reason I've had two of them fail. The chargers still work, but the LEDs stutter and kick off. Disappointing.

—The Central Coast chapter of the Society of Antique Modelers, California



SERVO CHATTER

902 - 88TH LANE NW
COON RAPIDS, MN 55433



**2015's First Crasher of the Month
Winner - Andy Thunstrom
January 1, 2015**

ACRC BOARD MEMBERS

PRESIDENT
Virgil Okeson

president@anoka-rc.com

TREASURER
Marc Tellevik

treasurer@anoka-rc.com

**VICE
PRESIDENT**
Tim Karash

vicepresident@anoka-rc.com

**INSTRUCTION
COORDINATOR**
Tom LaRose

instruction@anoka-rc.com

**MEMBERSHIP
SECRETARY**
Stan Zdon

membership@anoka-rc.com

**FIELD SAFETY
OFFICER**
Brett Ohnstad

fieldsafety@anoka-rc.com

**RECORDING
SECRETARY**
Stan Zdon

secretary@anoka-rc.com

**EVENT
COORDINATOR**
Bob Proulx

events@anoka-rc.com

ACRC Website - <http://www.anoka-rc.com>

ACRC Forum - <http://anoka-rc.com/forum>

SERVO CHATTER EDITOR

Stan Zdon

newsletter@anoka-rc.com

CONTRIBUTORS THIS MONTH

*Tim Karash
Tom LaRose
Virgil Okeson
Bob Proulx
Stan Zdon*

ACRC SPONSORS

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

*Deadline for the
next newsletter is:
February 1, 2016*

CALENDAR OF UPCOMING EVENTS

- Thursday – January 21
•ACRC Meeting-Riverwind
- Saturday – February 13
•TCRC Auction
- Thursday – February 18
•ACRC Meeting-Riverwind
- Thursday – March 17
•ACRC Meeting-Riverwind
- Thursday – April 21
•ACRC Meeting-Riverwind
- Saturday – April 23
•ACRC Fun Fly #1`

