

FLY PAPER



April 2021

The Flypaper is a monthly publication of

The Fox Valley Aero Club

An Illinois not-for-profit Corporation

P.O. Box 837
St. Charles, IL 60174-0837

www.foxvalleyaero.com

AMA Gold Leader Club



Academy of Model Aeronautics
Charter Club #252

President:

Dale Gathman

president@foxvalleyaero.com

Vice President:

Dave Murray

vicepresident@foxvalleyaero.com

Secretary:

Debbie Howe

secretary@foxvalleyaero.com

Treasurer:

Joe Pedone

treasurer@foxvalleyaero.com

Flypaper Editor:

Doug Swanson

newsletter@foxvalleyaero.com



As a follow-up to our December Flypaper Aircraft Storage article, Cliff Fullhart demonstrates his new wing and fuse storage rack located out at the field. Aircraft is a .20-size Slow Poke, as was seen in the same issue's *Shots from the Field*. R.I.P. Don Froula photo



President's Message

Dale Gathman

president@foxvalleyaero.com

Living Up to One of Our Names – Well, we are certainly living up to the 'Windy City' part of *Windy City Warbirds & Classics*. The past few weeks have been, and the next couple will be, very windy, with most days at least double-digit windspeed and gusty. I guess that is not unexpected in our 'neck of the woods', but the temperature has been great, and that makes me long for less wind. Of course, patience will bring us the usual fantastic weather we

see towards the end of April and throughout the rest of Spring, Summer and Fall. I am looking forward to seeing you at the field soon. I know our members have a lot of planes to maiden this year.

Upcoming Workday – As we do every year, we have our Field Workday scheduled for Saturday, April 17 starting at 9:00 am. This year, we will be repairing the larger cracks in the runway, as well as a host of other projects including weedwacking and trimming, tree cutting, sealing the benches and jungle gym, and general sprucing up of the place. Mark will have a list of jobs ready for us at the Member Meeting. I ask that all able-bodied members come out to the workday, as there is much to do, and more

hands make the work go faster. We will be wearing masks and practicing social distancing as much as possible. Make note that the field will be closed to flying that day until the work is done.

Reflection – Every month before writing this article, I review the previous month's article as well as the same month's article from the previous year. Last year at this time, we were staring into the face of the pandemic and not knowing what the future would bring. This year, I have a much more positive feeling, as things are opening up, we have a pretty full calendar of events planned, and I am scheduled to get my second dose of Pfizer vaccine before our April Member Meeting. A lot of the club members I have talked to have gotten their vaccines already, and I think by June, we will be seeing a lot more things opening up and restrictions being relaxed. Dealing with this Covid-19 virus has been a long struggle, and we need to keep all the frontline workers (especially healthcare workers) as well as the families of people who have lost loved ones to the virus, in our thoughts and prayers. Let us make sure the healthcare workers we come in contact with know that we appreciate their service. I also would like to express my gratitude to our faithful board members who serve our club. They have done a fantastic job helping us get through this pandemic so far, and I look forward to working with them this year as we work through the upcoming plans and events. Please let the board members know that you appreciate their service as well. The club could not run without them. And hey - this should be an exciting year.

I hope that you can make it to our Member Meeting via *Zoom* on Thursday, April 8 at 7:30 pm. Also, if you have been working on any winter projects, please have them ready to show to us during our *Zoom* meeting during show-n-tell.

Dale



Kevin Hersey, Mike Maciejewski, and Jim Clousing seal the bleachers for all of our fans at Workday 2019.

From the Editor

Doug Swanson
newsletter@
foxvalleyaero.com



Here we are in April already. As Dale mentioned, we've had some windy weather so far. This past Easter weekend some warm temperatures and lower winds finally aligned. I'm happy to report that I got my first flights in of the season on Sunday evening. It was good to be back out at the field to hang out with some fellow club members.

On to the this issue: President Dale Gathman has prepared a one-page synopsis on the recent FAA Final Rule on Remote ID. The original document is over 100 pages. Dale's document reduces it down to the main points that we need to be aware of. Rather than modifying his work to fit these pages, I have included it at the end of this issue in its original format

Safety Chairman, Jeff Peca, has included a reminders on battery maintenance (at right), as well as some information on the upcoming Fun Fly season for 2021—see this on the next page.

Take care,

Doug

Watcha got?

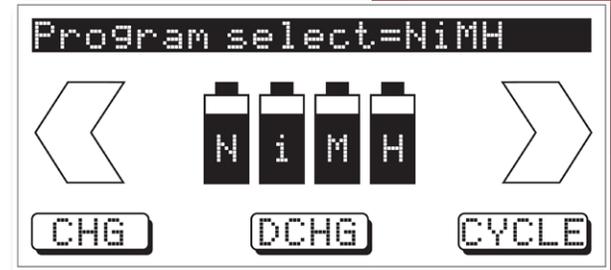
The FlyPaper is always looking for content! Send your builds, tips, and tricks for inclusion in this newsletter to: newsletter@foxvalleyaero.com

The viewpoints in this newsletter are solely those of the individual authors. They may not necessarily represent those of the Editor, Officers, Board, or Membership of the Fox Valley Aero Club.

Safety

Jeff Peca
safety@foxvalleyaero.com

The weather is starting to improve and flying season will soon be here. As I mentioned at the last Zoom meeting, now would be a good time to begin checking your batteries. I like to start early because some packs require several days to put them through several cycles. There has been a lot of discussion as to which battery chemistry is better than the other so I don't want to start that war. Just remember that for any given voltage 2000MAH is 2000mah. The chemistry of the battery is irrelevant. But, I do suggest that you cycle your batteries, regardless of the type. In addition to erasing memory in a NiCAD, cycling will give a baseline for battery health. Most chargers on the market today have a function for discharging a battery and recording its capacity. When I purchase a new battery I always charge/discharge it several times to check the capacity. I also don't want to get into a debate as to discharge load or how low to discharge it. It is best to check with the manufacturer for specifics. The point is that no matter what type of battery you prefer, a little maintenance now could avoid problems later. When it comes to LiPos it is very important to make sure you put them into storage charge when you are finished flying. The new Spektrum batteries have an internal circuit that automatically discharges them to a storage charge after a set amount of time. I have a couple of LiPos that are quite puffed from leaving them charged too long.



Gens Ace 2200mAh 3S
11.1V 25C Lipo Battery
Pack GEA22003S25D





Treasurer's Report

Joe Pedone

treasurer@foxvalleyaero.com

From the Club treasury standpoint, everything is in good standing. Our expenses remain low at this time of the year. Most of members have already submitted their 2021 dues at this point, which is greatly appreciated. Many members took advantage of using the new PayPal link for payment this year, and the feedback remains positive on how easy this is. Almost 50% of our members paid by PayPal this

year instead of check or cash, and I believe this percent will continue to increase next year, just due to its simplicity. However, we'll continue to take checks or cash next year, and in the future as well, since that is still a preferred payment method by many members, especially those without a PayPal account.

As far as Club expenses go, we continue to pay for the usual monthly field bills for electricity, dumpsters, and porta-potties. Also, since last month, we've paid one of our larger club expenses for the year, which is the field lease to the City of St. Charles. As we're finally moving into some warm weather this month, we'll soon be back to paying for field mowing again, and likely some expenses related to our annual field maintenance day. From my perspective, this is all good news, as it means warm weather is here, and it is time to get us all back out flying again. Hope to see you out there soon!

Sincerely,
Joe

**Arrows Tecnam-2010
1450mm PNP AH015P**



FUN FLYS 2021

By: Jeff Peca

This year we would like to attract more participants in our FUNFLYS. With a membership of close to 200 members there is no excuse for having a handful of members at the FUNFLYS. There are several things we are going to try to boost those numbers. First, the events will be chosen so that anyone can safely and confidently participate. Even novices on a buddy box are encouraged to compete. At all of the FUNFLYS this year we will have lunch for all of the participants. Food has always been a great way to get people to socialize (Please remember social distancing). Another thing we will do to increase participation is raffle prizes. The prizes will be awarded through a raffle and will have no bearing on how well you did in the contest. The last place pilot will have the same chance at getting a prize as the first place pilot. Also included in the raffle will be anyone that helps us run the event such as judges and timers. The most important people at any of our events are the workers—without them we cannot hold the events.

The first FUNFLY of the 2021 Season is May 23rd.

The flying will begin at 1:00 sharp. So PLEASE get your trim flight in early. The field will be shut down about 12:45 to have a pilots meeting. The event will be a timed flight. The clock will start when your airplane leaves the ground and stops when it touches down the first time. It's that simple. As with all FUNFLYS, heckling is encouraged. Mike Maciejewski has volunteered to be our Chef for the first FUNFLY. We will provide more detail at the May meeting.



Secretary's Report

Debbie Howe

secretary@foxvalleyaero.com

Fox Valley Aero Club
Member Meeting Minutes
March 11, 2021 via Zoom

President, Dale Gathman welcomed everyone and reminded everyone to state their name when speaking so that Debbie can do the minutes off of the recording easier.

Dale asked for a motion to approve the February Member Meeting Minutes. A motion was made by **Dave Cotton** and seconded by **Todd Culbertson** (welcome back, Todd), all approved.

Treasurer, Joe Pedone said the checking account is in good shape and the majority of members have paid dues. Joe said that he is holding the registration fee paid by WCWC pilots in a separate account, with the odd chance of having to refund pilot fees; he wants to keep that money separate. A motion to approve the Treasurers report was made by **Alvin Cole** and seconded by **Mike Maciejewski**, All approved.

Safety Chairman, Jeff Peca reminded everyone to check their batteries. This is not a debate over what is the better battery, but this is the time to make sure they are cycled or checked for the upcoming season. NiCad batteries can be cycled over multiple days on a cycling charger, and we were also reminded that if we are using Lipo batteries to make sure that if you have charged them, make sure before you store them after flying. Bring them back down to storage charge right away. President, **Dale Gathman** also

recommended Life Batteries.

Government Relations Chairman, Tom Spriet was not there, but President **Dale Gathman** said that the FAA Ruling about Remote ID was going to be pushed off 1 month and 5 days so the new Biden administration has a chance to review it. Model Airplane News has a great article about the FAA Remote ID.

President, Dale Gathman mentioned that **Jeff Peca** had contacted the AMA to find out if the club will be responsible for enforcing the AMA tests and certification and the answer was NO. The next question is: will the AMA still cover a claim if the person has not done the class/test, the answer is yes. More info will come about this in the future.

Field Chairman, Mark Knoppkie said we got the new quote from Sanchez Brothers for the mowing and the fee for the mowing went from \$280 to \$294. The board voted to go ahead and renew the contract. Mark is also going to get the financial numbers for finding out what Porta-Potties we will have out at the field and when to bring them out. We did decide that we do need a handicap Porta-Potty available. We found out that the hand wash station that was ordered will be shipped out April 8, 2021. More information on the plans for the field work day will be given at the next meeting. Mark also said that someone had driven on the grass portion of the parking lot and made some pretty bad ruts, please stay on the gravel until further notice with all vehicles.

Flypaper Chairman, Doug Swanson was not present but everyone commended Doug for another great job on the Flypaper!

Public Relations Chairman, Tom Flint said enjoy the summer, come to events, we have a great club.

Fun Fly Chairman, Jeff Peca said our first Fun Fly would be May 23rd; he will be going over to pick up 3 gift certificates from **Hobby Town** in the next couple weeks that will be used as prizes. Everyone who participates in the event will get an entry (continued)

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into the raffle. **Mike Maciejewski** has offered to do the cooking. We are looking at doing a timed flight as our first event with maybe a spot landing for the more advanced pilots. Everyone is welcome, even our newer pilots that might be on a buddy box, all should come out and have fun.

Someone—sorry no name stated—asked Jeff if the field was open to visitors at this time and the answer was yes, visitors are welcome at the field as spectators, but as of now, no guest pilots. Spectators are not allowed during the Windy City Warbird event. It will be registered pilots and members only allowed at the event this year due to Covid restrictions, if this changes and we are allowed to have more people we will let everyone know.

Jeff Peca also said he filled out the form for the Gold Leader Club from the AMA and confirmed we have been a registered Gold Leader Club for the past 9 consecutive years. The AMA would like to have one Leader Member at each and every club. More information will be sent out in an email if you would like to find out more information about the program and who to contact for the rules and requirements.

Windy City Warbirds & Classics Chairman, John Fischer said we have restricted the number of pilots to 65 and as of right now we have 65 pilots pre-registered. We have put up a wait list and as of now there is no one on it. As of right now we do have the finances to pay for the rental of the 40' x 80' charging and storage tent. That will be the biggest part of our budget for this year as we will not be doing the noon time shows, or pilot's dinner. We will be coming up with a list of volunteer jobs that we will look to get volunteers for in the coming months. We know we will need the flight line covered as well as people to cover the gate to make sure no spectators enter. We will look for help with selling shirts and hats from the past years that we still have in stock. The gun range and forest preserve have already been notified of the events and the proper permits have been obtained. Right now out of the 65 pilots, 33 of them are club members, so we hope to have a great and fun event.

Festival of Flight Chairman, John Fischer said that no real news about the Festival of Flight at this time other than, it will be only planes this year; we will not be including cars at the event. We hope that Covid guidelines are

better and that we can have a profitable event with spectators, but that we will follow the government rulings at the time.

Show and Tell:

John Fischer showed off his new bags that he ordered for his plane from Revoc, he let everyone know the fit on the bags is perfect. John said if they do not have the plane listed on their website that all you have to do is send them an email and they will send you a list of the measurements and locations that they need and then you can pick the fabrics and colors. They will send you a test pattern made out of a linen material and then once approved they will custom-make them for you. John said they are not cheap but they are worth the investment. John also showed a Makita battery-powered air compressor that uses the same battery as his tools in the shop. John showed it even comes with a digital read out and is only priced around the \$100 area.

Alan Galle showed his Hangar 9 B25 that was crashed and the entire front half of the plane was destroyed. Alan was able to get a set of plans and scale them down. From those, he was able to rebuild the front half of the fuse. Great building/repairing work—looks great! Along with the plans, he was able to get a half wing that was also damaged in the crash and rebuilt that completely. Nice!! Alan hopes to be ready by summer to fly it.

Jim Hari said he was recently in Lake Geneva and saw two guys flying quads and talked to them. He was impressed with the battery life that they had and was happy to see a full-scale Stearman flying over the lake as well.

Mark Knoppkie said he got his radio back from Horizon and they did not find any problems with it but did replace the receiver for him at no charge. He also showed us his Stinson project and said it will be ready for the WCWC event. The Stinson will be fully lighted with landing lights that fold into the wing. Mark showed us how the lights were run as well. He will be putting a 90cc 3 cylinder Saito with electric start for power. Looks Great, Mark!! Can't wait to see her fly!

Dave Brustle showed his Top Flite P51 Mustang that he is adding a ton of detail to with all the simulated rivets and scuffing of the finish to

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create a great affect. Can't wait to see the finished project.

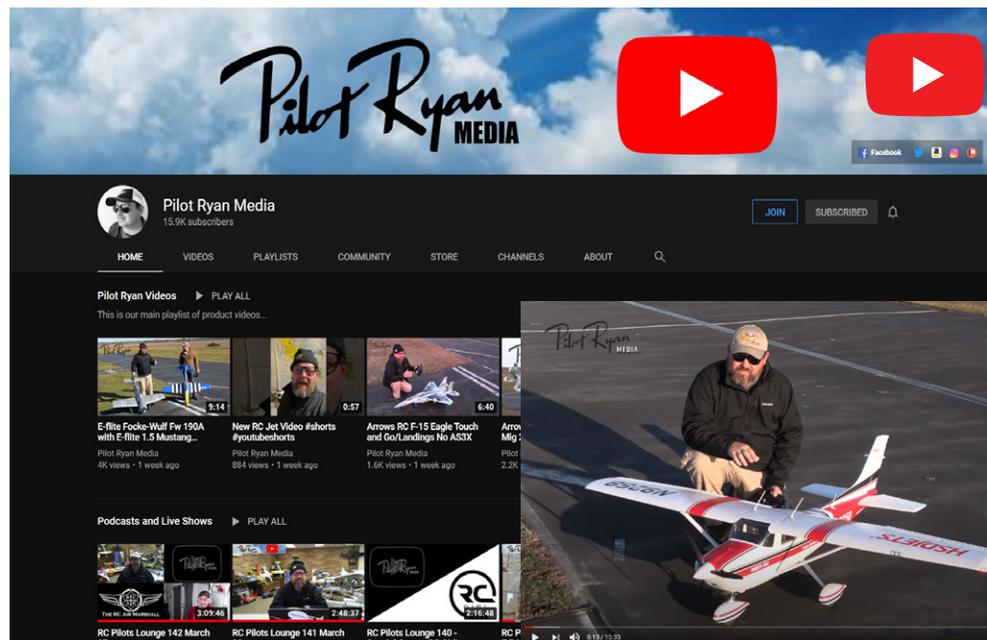
Jeff Mrachek showed his Hangar 9 P47 Thunderbolt that he is doing in the NO GUTS NO GLORY scheme; he will be putting a DLE 20 in it for power. While the plane has had many flights, after the new change of engine, Jeff plans to bring it out on Saturday to fly it.

A motion to adjourn was made by Debbie Howe and seconded by John Fischer, all approved.

On the Web

Last month I shared one of the YouTube channels that I like to follow. Another can be seen below, and accessed directly by clicking the images or by clicking here: **Pilot Ryan Media**

He has a lot of information and entertainment to offer, with product reviews, shakedown flights, and weekend live shows called *RC Pilot's Lounge*.



YouTube

← clickable!
↓



E-flite DRACO 2.0m Smart BNF Basic with AS3X and SAFE Select EFL12550

Spektrum 22.2V 5000mAh 6S 100C Smart G2 LiPo Battery: IC5 SPMX56S100





Membership Chariman, Dave Cotton with his Aeroworks Yak 54. Powered by an O.S. 1.20 2-stroke.



Mark Beezhold and a friend breaking in the DLE30 on his Aeroworks Edge 540.



President, Dale Gathman with his Hangar 9 1/4-scale Cub. O.S. 33 gas power. Custom graphics by Vic Miller.

Shots from the Field

photos by Doug Swanson and Dale Gathman



Editor, Doug Swanson and his E-flite Carbon Cub SS. 6S 5000 for juice and a JR 12X guidance.



Dominick Silvestri with his 'field hangar' full of airplanes.

January 1	Fun-Fly — Frozen Fingers	10:00 am FVAC Field
January 14	FVAC Member Meeting	6:00 Board, 7:30 Member Zoom
February 11	FVAC Member Meeting	6:30 Board, 7:30 Member Zoom
February 20	FVAC Annual Swap Meet	CANCELED
March 11	FVAC Member Meeting	6:30 Board, 7:30 Member Zoom
April 8	FVAC Member Meeting	6:30 Board, 7:30 Member Zoom
April 17	Field Workday	9:00 – FVAC Field
May 1	Tree Line/Berm Orientation Day	9:00 – 3:00 – FVAC Field
May 13	FVAC Member Meeting	6:30 Board, 7:30 Member Zoom
May 23	Fun-Fly – #1 –	1:00 – 3:00 – FVAC Field
May 31	St. Charles Memorial Day Parade	Time TBD
June 5	FVAC Cookout (formerly pig roast)	12:00 – FVAC Field
June 10	FVAC Member Meeting	6:30 Board, 7:30 Member Zoom
June 17-19	2021 Windy City Warbirds & Classics	FVAC Field
June 20	Open Fly – All Scale (TBD)	FVAC Field (TBD)
July 8	FVAC Member Meeting	6:30 Board, 7:30 Member - TBD
July 11	Fun-Fly – #2 –	1:00 – 3:00 – FVAC Field
August 7	Cub Fly – AMA Sanctioned – TBD	9:00 – 1:00 Cubs Only - FVAC Field
August 7	Electric Only – AMA Sanctioned – TBD	1:00 – 6:00 Electric Only – FVAC Field
August 7	Night Fly – AMA Sanctioned – TBD	6:00 - Midnight - FVAC Field
August 12	FVAC Member Meeting	6:30 Board, 7:30 Member - (TBD)
August 14	Family Fly Day	9:00 – 1:00 - FVAC Field
August 28	Retro Fly	9:00 – 3:00 - FVAC Field
Sept 9	FVAC Member Meeting	6:30 Board, 7:30 Member – (TBD)
Sept 11	Festival of Flight	FVAC Field
Sept 12	Fun-Fly – #3 –	1:00 – 3:00 – FVAC Field
Sept 18	FVAC Tailgate Swap Meet – Sanctioned	9:00 – 1:00 – FVAC Field
Sept 19	Plane Search Corn Walk	9:00 – 11:00 – FVAC Field
October 9	Turkey Fry	12:00 – FVAC Field
October 14	FVAC Member Meeting	6:30 Board, 7:30 Member – (TBD)
November 11	FVAC Member Meeting	6:30 Board, 7:30 Member – (TBD)
December 4	Annual Christmas Party	6:00 Hilton Garden Inn – St. Charles
December 9	Rookies Christmas Party	7:00 Rookies Sports Bar & Grill – St. Charles

FVAC NEW MEMBERSHIP FORM

New Member Assessment Fee: \$300.00 (For new memberships only. Does not include dues.)

- Dues for Senior Members (19 years and over) \$125.00 per Member
- Dues for Junior Members (18 years and under) \$ 25.00 per Member
- Family Membership \$125.00 1st Member
(\$25 for each additional family member with an AMA card, either a spouse or a child under 19 years old.)

PLEASE PRINT

Your Full Name:

AMA Number:

Birthdate:

Dues Amount:

Include me on the club email list.

_____	_____	_____	\$ _____	<input type="checkbox"/>
_____	_____	_____	\$ _____	<input type="checkbox"/>
_____	_____	_____	\$ _____	<input type="checkbox"/>

Your Complete Mailing Address:

Please list the R/C channel(s) you use:

Your Phone Number/s:

Home:

Work:

Cell:

What is Your Occupation: (Please provide details)

Your E-mail Address:

Total Payment Enclosed:
 \$ _____



**Make checks payable to:
 "Fox Valley Aero Club"**

Complete and mail this form to:

**FOX VALLEY AERO CLUB
 P.O. BOX 837
 ST. CHARLES, IL 60174-0837**



Signature _____

Date _____

‘REMOTE IDENTIFICATION OF UNMANNED AIRCRAFT’ FINAL RULE – BRIEF SYNOPSIS

By Dale Gathman – President, Fox Valley Aero Club

This synopsis applies to the recreational pilots of unmanned aircraft (UAS) portions of the final rule.

1. **Manufacturers** will have to comply with the rules by **September 16, 2022**.
2. **Pilots** will have to comply with the rules by **September 16, 2023**.
3. The following Remote ID requirements apply to radio controlled aircraft (Unmanned Aerial Systems or UAS) that weigh over 250 grams (0.55 pounds). Control Line aircraft are excluded from the requirements.
4. UAS will be in one of three conditions in regards to remote ID capability:
 - a. **Standard Remote ID** – Remote ID broadcast capability built into the UAS by the manufacturer. Most if not all UAS weighing greater than 250 grams manufactured after the deadline will be of this type. Each of these UAS will most likely need to be registered with the FAA. There will be no monthly fee for using this type Remote ID.
 - b. **Broadcast Module Remote ID** – A module available for purchase will be placed in the UAS before flight. Each pilot would purchase one module, register that module with the FAA, and then be able to move it from one UAS to another UAS whenever they desire. These modules will be small, light, and target cost should be between \$20 and \$50. There will be no monthly fee for using this type of module.
 - c. **No Remote ID** – UAS that were manufactured prior to the deadline or UAS that have been purchased after the deadline as PNP or a kit, where the pilot adds their own electronics, and have not been adapted by placing a Broadcast Module into the UAS.
5. UAS pilots using method ‘4-a’ or method ‘4-b’ will be able to fly wherever they are allowed to fly now.
6. UAS pilots using method ‘4-c’ will be able to fly only at FRIA sites. FRIA stands for FAA Recognized Identification Areas. AMA chartered clubs will be able to register as a FRIA site through the AMA. Non club sites holding AMA events will also be able to register as a temporary FRIA site. Accredited educational institutions will also be able to register as a FRIA site.
7. Remote ID broadcasting will use technology such as WiFi or Bluetooth. The broadcast is required to send a unique identification code, the UAS’ current location, altitude and velocity, the location where the aircraft was launched and the current time. This data will be able to be seen by enforcement people, probably through an app on their phone.
8. All pilots flying UAS greater than 250 grams must still register with the FAA. Each pilot registers online to get a UAS Certificate Number, and that number must be placed on every UAS over 250 grams that they fly. FAA registration can be accomplished at this site: <https://faadronezone.faa.gov/#/>

Note: The final rule for Remote Identification of Unmanned Aircraft is 124 pages long. This document attempts to simply explain the Remote ID rules that apply to most pilots in the opinion of the author. The author and Fox Valley Aero Club do not guarantee the accuracy of this document.