

# Flypaper 2021

Official Newsletter of  
The Flying Electrons of Menomonee Falls



Celebrating 60-plus Years of Service to the Community & Counting!



## President's Preflight



Many of us were looking forward to our first big event in a year and a half last month but it was just not to be. Bad weather forced us to cancel both Saturday and Sunday with the forecast of thunderstorms for the weekend.

There were moments during those days where the weather cleared slightly but it returned as forecasted on and off throughout both of those days.

It's our hope to combine our 60-th Anniversary with this year's AirFest 2021. AirFest itself this year will also be less purposeful in that Scout Troop 110 will not be present to assist in preparing and serving food. Although the scouts are still camping as small groups, they are not at a comfortable participating in events until all are vaccinated.

### Builder's Workshop

At the writing of this newsletter, we have our minimum of six students signed up for our University School

(See **UPDATE** on page 4



TRUST stands for," The Recreational UAS Safety Test." This the FAA test we've been hearing about for a year with deep concern. Well, I've taken the test and it's simple and easy to pass. I passed it with 100% on the first try, so it can't be that difficult.

What's more, they tell you everything you need to know just before they ask the multiple-choice questions.

**Tip Number 1:** Don't skip reading the advance information before you start answering the questions. All the answers are there, and you'll save time if you just read through each page prior to answering the questions that follow each section.

To say that the test lasts 30-minutes is an exaggeration. You can easily get through the test in 1.5-minutes.

**Tip Number 2:** The site has had

reported some problems recently, and on occasion you may get an error message page. If you do, don't get excited. Just click your "Back" browser button to return to the previous page and answer the previous question again. I hit two error pages

(See **TRUST** on page 4)

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**Club Meetings:**  
Second Sunday of Month  
7:00pm  
De Marini's Restaurant  
N88 W15229 Main Street  
Menomonee Falls, WI 53051

**Flying Site:**  
N61 W17000 Kohler Lane  
Menomonee Falls, WI  
[www.flyingelectrons.com](http://www.flyingelectrons.com)



Last year we implemented our Incident Reporting System.

As you continue to fly throughout the spring months as weather permits, be sure to indicate any signal interference you may experience so that we can begin tracking events for the 2020 flying season.

To reach the Incident Reporting System, simply click this link, [Incident Reporting System](#)

You can also register an incident by going to our website at [www.FlyingElectrons.com](http://www.FlyingElectrons.com). Select "Contacts" from the left side bar and then "Incident Report" from the dropdown.

**Flypaper  
Contact Information**

**Editor:** Tom Jacobs  
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*The Flypaper welcomes for consideration articles of interest, recommended video links, letters and questions you may have about the club, meetings, newsletter, and events. Please direct those communications via email to tjacobs421@att.net. We will respond to all inquiries.*

**Next Club Meeting**

**TBD**

**Tamarac Airfield**

17000 Kohler Lane  
Menomonee Falls, WI 53051

**Bring a Friend and/or a Plane to Show & Tell**



**Building the Airbus A350 RC airliner, full build and first flight**

Ramy RC demonstrates how easy it is to build the Airbus 350 in this time lapse build video. If you want to see more, he offers a complete series of build videos on his amazing creation.

[Building the Airbus 350](#)

**Top 10 Largest RC Aircraft in the World**

Love RC Plane Videos? Check out this top 10 biggest or largest remote control aircraft planes that will amaze you. Biggest RC Plane in the world. Largest RC Planes. Remote control planes that are totally awesome.

[Top10 Largest Aircraft](#)



**Love RC Plane Sea Planes from Flite Test**

Half boat, half airplane, these models demonstrate what can

be done both on and off the water. Auqua Cat, manufactured by ModelAero.com. The plane is made from "Depron" and about a 15-hour build ... but it's built well.

[Sea Planes From Flite Test](#)



**Miniature Jet Fighter Flies 500KM/H**

Visiting the most epic RC Fighter Jet club in the world! These jets can fly up to 500km/h and cost tens of thousands of dollars! They are described as bombs of the sky, so there is a secluded area in Dubai that is safe to fly them. Check out this race between a McLaren and two fighter jets!

[Miniature Jet Fighters](#)

**(UPDATE** Continued from page 1)

of Milwaukee Builder’s Workshop. The school is confident that we’ll possibly reach our maximum of 9 with three weeks left in the enrollment period.

This workshop will be conducted over five consecutive days beginning Monday, August 2nd and run through Friday, August 6th. I’ve been trying to organize a building process that allows students to be come skilled at creating parts, assembly, equipment installation and decoration; all of which must be completed in 1.5 hours of work.

**FAA Safety Test (TRUST)**

The FAA flight safety test has been finalized and released to

the public. I’ve taken the test myself and it’s a “no brainer” as they say. See the article later in this newsletter for what’s in store.

**Weather Station Progress**

Mark Polzin has been beta testing his weather station and right now he’s working on ensuring its reliability. He’s having some good success. Once that is in place, we’ll look at how we make it universally available to all members via both mobile and desktop access to include multiple images of the airfield at specific intervals. More to come on this in our next newsletter.

**Club Meetings**

We will be holding an open-air

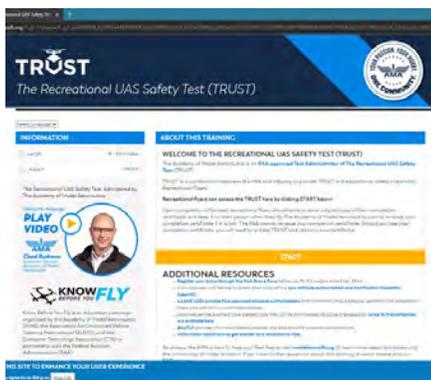
club meeting at the field in the coming weeks which will be our first in over 14-months. Our intention will be to hold it on a Sunday afternoon preceded by a brief board meeting at the site. Currently we’re reviewing either Sunday, August 8th or 15th as a meeting date, time is TBD.

Beyond this, I’ve scheduled the meeting room at De Marini’s for the second Sundays of both October and November this year to hold our 2022 board nominations and elections.

Watch your newsletter and emails for an announcement on this and other news.

TJ

**(TRUST** Continued from page 1)



when taking the test, myself and after backing up to the previous page and recompleting that step, I was able to continue.

I found that this error occurs when you try to click ahead too quickly, and the system doesn’t

have enough time to process your answer before moving forward, so don’t rush it.

Just as with registering with the



FAA, we all need to take the test.

When the test is completed, you’ll receive a “test confirmation card.” This is presented as a PDF that you can print out. You must carry

this card, along with your FAA registration with you when flying. You should also save the PDF somewhere on your computer so you can make other copies if needed at a later date.

If you lose the “test certification card,” you’ll need to retake the test, so store it in a safe place.

Click this link to take the test:

**[Take the TRUST Test](#)**

Good luck! But I hardly think you’ll need it.

TJ

# Carl Verbanac Celebrates 97 Years!

On June 16th Carl Verbanac celebrated his 97th birthday by inviting just a few of his closest friends to join him in an elaborate feast of fried chicken, barbeque sandwiches, baked beans, assorted salads, sodas and more.

Corky did the cooking and cleaning while the rest of the family made everyone feel welcome.

Here are just a few photos taken at the event.

**Thanks for including us Carl!**





## LiPo Battery Safety

I was about to release the newsletter a few days ago when I heard of a LiPo fire that occurred at the airfield. This was the second fire we had this year following the big one caused by the passing train in April, so I thought it needed investigated.

We had not had a LiPo fire since the charging stations were established to my knowledge, so why did we have two fires in just over just a few weeks?

Our charging stations are an incredible asset to the club. They have a great deal of capacity and provide a great convenience to flyers.

Everyone knows that LiPo packs present a danger when not properly used or cared for. LiPo fires are dangerous because they flare up rapidly and require fast action to get them out. They burn excessively hot and can easily injure someone. Can anyone say, "lawsuit!"

As I explored what had happened; the first event was caused by a member trying to charge two batteries with different mAh ratings on the same multi balance board. The capacity of the small battery filled first, and the other larger battery continued to fill allowing the smaller one to overfill, overheat, and start a fire.

The next three incidents occurred because of bad battery cells. A member was trying to charge a pack without the use of a balance plug connector and the unit caught fire on the charging shelf. The next day, that same member saw two of his other battery packs catch fire after a flight. These batteries were in no condition to be used at the field, let alone charged there.

I've done some research on battery safety, and today we have charging systems and metering devices that can tell us a lot

about the condition of our battery packs. Here's what I've learned.

### **Cheap Batteries Don't Last**

You get what you pay for, and this goes for batteries as well. Cheap battery packs lack quality manufacturing controls that meet minimum standards which can dictate how long a battery pack will last. It only takes one bad cell to create a bad pack. Don't expect those cheap cells to last like the top name brand cells do.

### **Internal Resistance is the Big Problem**

Holger Petersen gave a presentation at one of our past club meetings on Internal Resistance (IR), and it's time that we revisit the topic. Aside from direct physical damage to a pack, the buildup of internal resistance (IR) is the top reason battery packs go bad, and it's easily detected.

Through over charging (pushing too much current into a cell) and excessive discharging (flying too long on a pack) IR can build up causing excessive heat and shortening the life of the pack. Other things contribute to higher than desired resistance as well, like the quality of the cells (we're back to cheap again here), age (the number of cycles it's been through) and discharging a battery at a higher rate than it can handle.

Most newer charging systems include an internal resistance metering option. I found that mine includes one and if you've purchased one in the last two or

*(Continued next page)*

three years, yours probably does too. Checking the internal resistance of your pack's cells is the easiest way to determine if you're pack is at risk. You simply connect it to the charger, dial up the IR meter and read it. Easy.

The battery scholars tend to agree that a cell reading of 10 to 15 Ohms is a cell in great condition. A cell reading at 10 to 15 Ohms is still fairly low risk. But a cell that is 20 Ohms and higher is at risk of causing a fire and it's time to retire that pack.

Let's be clear. It only takes one bad cell to put a battery pack at risk. If you have packs that are showing a higher than 20 Ohm resistance reading, then get rid of them. I personally went through my batteries at home and checked everyone. I immediately took two packs out of circulation, and one of them wasn't terribly old.

If you don't have an internal resistance feature on your charger, then find another member that does and check your batteries.

### Physical Damage

Any physical damage to a LiPo pack puts the battery at risk too. This includes cuts, dents and broken connectors and cabling. Sometimes, especially when flying Assassin combat, a balance plug connector can get hit and cut by a prop. If you expect to charge that pack at the field, then it must be properly repaired and functional.

### C-Rating (Discharge Rate)

The C-Rating is the batteries safe

"continuous" discharge rating. This number allows you to calculate the maximum current you can draw without damaging a battery. When a battery shows a range like 20-30C, the 30 represents the "burst" current the battery can handle for short periods of time without being damaged.

You'll extend the life of your battery when you charge your packs at the manufacturer's recommended setting. This is usually 1C. Charging batteries at a higher level increases internal resistance (IR), which in turn, reduces the overall life of your battery pack.

Here are a few **DOS & DON'TS** that should be observed at the field while charging batteries:

1. **DON'T** leave battery packs on charge unattended
2. **DON'T** charge a pack at its higher than recommended charge capacity
3. **DON'T** mix packs with different cell counts or mAh capacities on the same balance board
4. **DON'T** charge a pack that is visibly damaged or puffy
5. **DON'T** charge a pack without the use of a fully functional balance plug connection
6. **DON'T** continue to charge cells that have an internal resistance greater than 20 Ohms

Here are a few things that you should **DO** when charging at the field.

1. **DO** check your battery pack's internal resistance values frequently
2. **DO** mark those packs that are getting close to the resistance cut-off of 20 Ohms and check them often
3. **DO** check your battery cells after each flight to ensure that you're not over discharging. Cells should remain above 3.5 volts.
4. **DO** offer to help others if they need assistance in evaluating their battery packs
5. **DO** discard battery packs that are not safe as soon as you discover them
6. **DO** say something if you see someone ignoring these guidelines



The club will be purchasing a fire extinguisher to be installed at the shelter. It will be easily visible and accessible to anyone that needs it. Please familiarize yourselves with its operation.

We will also post these **DOS & DON'TS** at the shelter until all are aware of these safety precautions.

### **Our goal is no more fires!**

I realize that accidents do happen, but if a fire occurs due to ignorance of one of these guidelines, then ...

... it's no longer an accident.

# Does Anybody Know How to Get to Carnegie Hall?



The old line goes: A man asks for directions saying, "How do I get to Carnegie Hall?" Practice, practice, practice ... is the answer.

The same goes for learning to fly R.C. planes, heli's and quads. You will not get good at flying or playing a musical instrument by practicing once a week for 15 minutes. You must practice, practice, practice, until those thumbs move almost automatically.

So, "how do I practice without

crashing," you may ask?

Fly with an instructor using a buddy-box. This applies to the newbie and to those long-time members who are somewhat out of practice. Our club offers free instructions to any member, so take advantage!



An even more important tool for practice is an RC flight simulator.

Real Flight is probably the best at around \$200.00 and that can be a heavy investment. There are FREE flight simulators out there, however. FMS (Flying Model Sim-

ulator) is one, another is PicaSim. PicaSim can work with most any transmitter too, by connecting a cord to your computer. The



cords cost about \$10.00 and are available through Amazon.

Again, our club has a FREE solutions to flight training. We also have flight simulators in our library that you can check out for 30-day periods to hone your skills.

If you're interested in checking out a flight simulator or training, please contact me, Ed Malec at [mechanical.eddie@gmail.com](mailto:mechanical.eddie@gmail.com).

Nothing, however, will get you to Carnegie Hall, or make a great pilot like practice, practice, practice, at home and at the field.

Once you master both, you'll be a star!!

*Ed Malec  
Student Coordinator*

**Note:**

*A limited number of Flight Simulators are available for 30-day checkout*

*See either Ed Malec or Tom Jacobs for availability.*



The Flying Electrons of Menomonee Falls Present

AMA Sanction No. 11489

# Our 2021 RC Scale Festival

**Sunday July 11th, 2021**

All SCALE Radio Controlled Model  
Aircraft are Welcome.

**FLY OR DISPLAY!**

**Spectators  
Welcome!**



**Registration starts at 8:30AM**

**Flying from 9:00AM to 2:00PM**

**AMA Membership required to  
FLY or SHOW.**

All flying aircraft must be test flown prior to  
this event, no test flights please

**\$7.00 Landing Fee.**

**Maximum 3 Aircraft allowed to  
compete for Cash.**

**Great Food On Site with FREE Parking!**

*(Scale Documentation would be nice but not a  
requirement to enter)*

## Event Information

- All Scale Aircraft are Welcome
- Cash Prizes Awarded, over 9 FUN SCALE Categories
- Best Flying Scale - \$20 for each WWI, WWII, SPORT, and Jet
- Best Scale Built from Kit, all types - \$20.00
- Best Flying ARF (Almost Ready to Fly) "ARFmanship" - \$20.00
- Best Flying Scale Performance by an Electric - \$20.00
- Best Flying Scale "SCRATCH" built - \$20.00
- Best Static Scale "Hanger Queen" - \$20.00

**(All prizes will be awarded at 2:00PM)**

For more information contact: Chris Milbauer, Phone: 414.750.2740, Email: [chrismilb@att.net](mailto:chrismilb@att.net)  
Check the Flying Electrons website for more details at [www.flyingelectrons.com](http://www.flyingelectrons.com)

**LOCATION: N61W1700Kohler Lane, Menomonee Falls, WI 53051**

From Hwy 41, take Siler Spring Drive Exit and go West. At Pilgrim Road, turn North. Take Shawn Circle East, then left onto Kohler Lane to the Water Tower. Look for signs directing you to the airfield.

# The Flying Electron's **ALL ELECTRIC FUN FLY**

**Sunday, July 18th, 2021  
8:00AM to 2:00PM**

(AMA Membership Required to Fly)

**You'll Get a Charge Out of this Event!**

**Leave your "slimers" at home and join us.**

**Contests and Fun Pilot's Raffle! Win Raffle Tickets!**

**(Pilot Registration/Landing Fee \$5.00)**

**The Club Concession Will Be Open and Serving Food!**



**Speed Contest:**

Prop & EDF

**Mini Air Show:**

Scale, 3D, EDF, Heli, Sport



Tamarac Field is conveniently located for anyone living in the Milwaukee, Waukesha and Ozaukee county areas. Kohler Lane is just north of Silver Spring Drive (W) and Pilgrim Road (YY). Take Shawn Circle to Kohler Lane and follow the signs to the water tower. Watch for the sign that says, "Flying Field."

**For more information, contact Steve Huelsbeck at [shuelsbeck@wi.rr.com](mailto:shuelsbeck@wi.rr.com).**

**AMA Sanction #8174**

# NEW MEMBER APPLICATION

You must include a photocopy of your AMA card to receive your membership card!

- Check this box if you have updated your address, email, phone...etc.
- Check this box if this is a "STEM Student Membership Academy" Application

AMA NUMBER: \_\_\_\_\_ FAA NUMBER: \_\_\_\_\_

*(Please include copies of both cards)*

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

EMAIL: \_\_\_\_\_

PRIMARY PHONE: \_\_\_\_\_ DOB: \_\_\_\_/\_\_\_\_/\_\_\_\_ (month and year only)

RADIO CHANNELS CURRENTLY USING: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 2.4 GHz: \_\_\_\_\_

SPONSOR (Required for new membership): \_\_\_\_\_

By signing this application I agree to abide by the Field Rules.

Signature: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Make checks payable to The Flying Electrons, Inc.

Mail to: The Flying Electrons

Chris Milbauer

4952 N 106<sup>th</sup> Street, Milwaukee, WI 53225

414-750-2740

chrismilb@att.net

Academy of Model Aeronautics, 1-800-1 FLY AMA, www.modelaircraft.org

The Flying Electrons Inc., www.flyingelectrons.com

## MEMBERSHIP FEES AND TERMS

Select the Membership Category (Enter Cost at Right)	Unit Cost	Extension
New Member Initiation Fee	\$50.00	\$
Non-Resident - Individual or Family Membership	\$75.00	\$
Menomonee Falls Resident - Individual or Family Membership	\$55.00	\$
Junior (18 Years or Younger by July 1st)	\$55.00	\$
Single Senior (65 or Older by July 1st)	\$55.00	\$
<b>Additional Costs</b>		
Add if renewing after January Club Meeting	\$5.00	\$
Add if renewing after February Club Meeting	\$10.00	\$
<b>Deduct</b> if you paid initiation fee previous year	<b>-\$20.00</b>	-
STEM Student Membership Academy (IP Qualified)	N/C	
Calculate Total Membership Cost Here		\$

Incomplete forms will be returned to the applicant. Failure to provide proof of AMA membership will result in suspended flying privileges until proof such as a photocopy of AMA card or faxed confirmation from the AMA is provided to the club secretary. Applications for AMA membership are available from the club secretary or from most area hobby stores. Acceptance into membership of the Flying Electrons Inc. is contingent upon Club sponsorship, Board approval, and completion of all requirements of The Flying Electrons Inc. bylaws and based on the information provided herein.

All fees are payable in advance.

# STEM Student Membership Academy

*Education in Aviation through Aero Modeling.*

*Sponsored by*

**The Flying Electrons of Menomonee Falls**

## Here's What The STEM Student Membership Academy Offers!

1. A state-of-the-art airfield for training and personal flying
2. Ongoing access to top notch flight instructors, builders, technical advisors
3. Access to get great RC deals and discount savings
4. Earn your solo pilot's license while learning at your own pace
5. Mini-workshops covering all types of aircraft and power sources
6. Immediate access to advice and tips on how to get the most out of your aircraft
7. Learn airfield protocols and proper safety precautions
8. Meet top pilots and learn aerobatic techniques
9. Participate in all club events and activities
10. Monthly club newsletter
11. Full access to Tamarac Airfield for personal flying
12. Attend monthly club meetings to learn about various model aviation issues

*Graduating students are eligible to renew their membership each year FREE of charge up until they reach the age of 18. (\$15.00 Annual AMA membership is also required for insurance purposes.)*

*For more information feel free to contact Tom Jacobs at [tjacobs421@att.net](mailto:tjacobs421@att.net).*

The Flying Electrons "**STEM Student Membership Academy**" is a member scholarship program that provides interested young people the opportunity to learn how science, technology, engineering, and math support the various principals of flight through model aviation.

Available to young people ages 8 to 18, students qualify and apply for the Membership Academy by registering through the Flying Electron's **Introductory Pilot (IP) Program**. This program, supported by the Academy of Model Aeronautics (AMA), is designed to introduce individuals to model aviation by providing a FREE structured 60-day flight training program.

During training, students learn the principles that support flight, how control systems operate aircraft, power sources and how to properly set up aircraft for successful flight.

Each student trains at their own pace and under a schedule that is mutually convenient. Instructors are also available to assist the student in acquiring his or her own RC aircraft and equipment to be used during student solo pilot certification. Several options are available.

Students that graduate from the IP Program to "pilot status" are immediately invited to apply for a full and FREE club membership with all benefits.

## 2021 Flying Electrons & Local Area Events Calendar

Date	Time	Event	Location/Club
Saturdays, May 1st thru June 5th	10AM to 12:00PM	Builders Workshop	Mequon Recreation Center
Saturday, May 8th to 15th	8AM to Noon	Field Clean up	Flying Electron's Airfield
Sunday, June 6th		Control Line Open Fun Fly	Circle Master's Flying Club
Saturday, June 12th		Open Fun Fly	Fon du Lac Aeromodeler's Assoc.
Saturday, June 19th	9AM to 2PM	BWS Flight Training, IP sign-ups, Education Event	Flying Electron's Airfield
Saturday, June 26th	9AM to 2PM	Club Fun Fly, 60th Anniversary Celebration, First Club Meeting	Flying Electron's Airfield
Sunday, June 27th	9AM to 2PM	(Above rain date)	Flying Electron's Airfield
Saturday, June 26th		Fun Fly	Sky Ranch Flyers
Saturday, July 10th		Charity Fun Fly	Astrowings of Wisconsin
Sunday, July 11th	8AM to 2PM	Scale Event	Flying Electrons Airfield
Sunday, July 11th	TBD	Club Meeting	Flying Electron's Airfield
Sunday, July 18th	8AM to 2PM	Electric Event	Flying Electron's Airfield
Saturday, July 24th		Fly-in	Lakeland RC Club
Monday, July 26th thru August 1st		EAA Kid Venture	Oshkosh
Monday, Aug 2nd thru Aug 6th	9AM to Noon	5-Day Builders Workshop	University School of Milwaukee
Saturday, Aug 7th		Float Fly	DNR Bong Recreation Area
Sunday, Aug 8th		Annual Radio Control Contest	Circle Masters Club
Sunday, Aug 8th	TBD	Club Meeting	Flying Electron's Airfield
Thursday, Aug 19th to 22nd	8AM Daily	Warbirds & Classics	Fond du Lac Aeromodeler's
Saturday, Aug 21st		Friend Fly (Rain Date Aug 22nd)	SWARM
Sunday, Aug 22nd		Wellnitz Memorial Open Fun Fly	Fond du Lac Aeromodeler's
Sunday, Aug 22nd		Open House	Racine RC Club
Wednesday, Aug 25th	9AM	Jim Wahner Dead Chicken	Flying Electron's Airfield
Saturday, Aug 28th	8AM to 2PM	Airfest 2019	Flying Electron's Airfield
Saturday, Aug 29th	8AM to 2PM	Airfest 2019 (rain date)	Flying Electron's Airfield
Saturday, Aug 28th thru 29th		Demo Flying	Circle Master's Flying Club
Saturday, Sept 11th	8AM	Swap Meet	Flying Electron's Airfield
Sunday, Sept 12th	8AM	Swap Meet (Rain Date)	Flying Electron's Airfield
Sunday, Sept 12th	TBD	Club Meeting	Flying Electron's Airfield
Sunday, Sept 12th		Open House - Pancake Breakfast	Watertown Aeromodelers
Saturday, Sept 18th - 19th	8AM	Pattern Contest	Flying Electron's Airfield
Saturday, Sept 25th thru 26th		Maker's Fair	Wisconsin State Fair Grounds
Sunday, Sept 26th	9AM to 2PM	Franken-Plane and Build & Fly	Flying Electron's Airfield
Saturday, Oct 9th		Collecto & Hobby Swap Meet	Model Engine Collectors Assoc.
Sunday, Oct 10th	TBD	Club Meeting	TBD
Sunday, Nov 14th	TBD	Club Meeting (Elections)	TBD
Sunday, Dec 5th	5PM	Club Holiday Dinner	TBD