



December 2020 FVEAA Newsletter

Fox Valley Electric Auto Association

The FVEAA is a Not-For-Profit Illinois Corporation and the Chicago-area chapter of The Electric Auto Association

This month's meeting is on Friday December 11, 2020 and will be VIRTUAL ONLY (NOT AT CCC) due to the Coronavirus outbreak for the purposes of "social distancing"

We are using the Zoom video-conferencing platform to hold this ONLINE meeting. Zoom runs on all computers and phones. Some setup is required prior to your first use of Zoom on your device of choice. Connect to the meeting a bit early (6:45pm earliest) by using the link below to test your connection. Please call Ted Lowe (630-260-0424) if you want help getting Zoom installed on your device of choice. You can also dial-in on your telephone to have an audio-only connection (see phone number and meeting ID below). The audio on your device will be automatically muted upon entering the call to avoid disrupting the call.

Pre-meeting setup check starts at 6:45pm.

Meeting starts at 7pm and will run until 9pm.

Use this information to connect during these times:

Topic: FVEAA December 2020 Monthly Meeting (VIRTUAL ONLY)

Time: Fri December 11, 2020 6:45 PM CST (pre-meeting setup check), Meeting 7:00 PM

Join Zoom Meeting (NOTE: Password has been added to link as of Nov 2020):

<https://us02web.zoom.us/j/95901481473?pwd=UnpJVUJOUmVPOFZqR013ZFpPbzM0UT09>

Dial-in for audio-only users: Call: 312-626-6799

Enter Meeting ID when prompted: 95901481473#

Participant ID: (blank, just #) *6 mutes/unmutes your line, *9 raises your virtual hand

Agenda

- 6:45 Virtual Meeting Starts (to test connections)
- 7:00 Fun EV Videos
- Other things
- 9:00 Meeting Close

**Bring EV related entertaining videos to the December meeting to show to us!
Please upgrade your ZOOM client! We want to use the new features.**

November meeting

Hopefully you found my presentation on electrical and charging station installation useful. Since I gave that presentation I have also helped Bruce Jones get his station installed and ready to go. Unfortunately he didn't make last month's meeting, so instead he has gotten direct training from me on the whole process. We are going to hear from Bruce on his adventures in the coming months. I do have an interesting detail that I didn't hit in my installs that cropped up in his. Per the NEC code, neutral wires of sizes 6ga and smaller must be white or grey jacketed from the factory, and not just wrapped in white tape. I didn't know this and apparently it is a common issue because it is a standard note on the Naperville permit approval letter. It also says that Earth ground must be green or bare copper, but I don't have the size in front of me where that limit applies. I haven't checked but this may be new in the 2017 version of the NEC, and is another example of why you should get permits and approvals to lock your install in based on the code at the time of approval. This prevents people from successfully demanding that you update your install later on when you sell the house.

I will also say that if you plan to hire a contractor to do work on your home you need to be clear up front that you want all the work to be permitted and inspected according to local rules. Some contractors won't want to do the job and have it inspected, so you want to weed them out early!

December meeting

I hope we can have an entertaining meeting watching EV video's and chatting in breakout rooms. Make sure your ZOOM client is up to date so you can use breakout rooms if you want.

Articles I found interesting

<https://www.sae.org/news/2020/10/new-sae-wireless-charging-standard-is-ev-game-changer>

SAE J2954 I like the way that rolls off the tongue

I would say that wireless charging coupled with driverless car tech is a game changer. It certainly would be nice to have this tech at my house, but I can plug my car in, it isn't that big of a hassle. However, in the robo-taxi business, this is a game changer. The car comes back and charges automatically, and I don't have to wake up to plug it in. They have also published a JSON based communications protocol.

https://www.sae.org/standards/content/j2847/6_202009/

This doesn't make any mention of authentication though, so we will have to see if they come up with some way to lock the units down and unlock them only for the right cars. When a human is standing there plugging it in it is pretty easy to make them swipe a card or tap a button on their phone, but that is more difficult with a driverless car.

<https://www.cnbc.com/amp/2020/12/04/about-150-cadillac-dealers-take-gm-buyouts-rather-than-invest-in-e-vs.html>

Some Cadillac dealers don't want to invest in the electric future.

<https://jalopnik.com/aptera-announces-a-1-000-mile-range-never-charge-solar-1845810811>

Aptera is back again, it now only has two seats but has a 700W solar array to charge the main battery. I still love the look of their car and maybe someday I will own one!

<https://arstechnica.com/cars/2020/12/everything-we-know-about-hyundai-and-kias-new-electric-vehicle-plate-form/>

Hyundai and KIA are going ALL 800Volt!! This is actually a pretty big deal as the only other 800V car that I know of is from Porsche.

<https://jalopnik.com/i-took-a-harley-davidson-livewire-on-a-road-trip-and-ev-1845749463>

This person was clearly unprepared for the journey at hand. I know we try to educate everyone, and it's hard, but this is a series of rookie mistakes here. Entertaining read though.

<https://arstechnica.com/cars/2020/11/the-volkswagen-id-4-electric-crossover-gets-its-epa-range-certification/>

<https://arstechnica.com/science/2020/11/new-targeted-healing-approach-rejuvenates-run-down-battery-materials/>

Interesting article on one possible way to deal with degraded batteries

<https://jalopnik.com/gm-has-fighting-words-for-tesla-1845719732>

<https://arstechnica.com/cars/2020/11/its-a-great-time-to-buy-an-electric-car/>

It's always a great time! This article is full of real life people buying a living with EV's. They have their needs and they bought accordingly.

<https://arstechnica.com/cars/2018/08/are-diesels-days-numbered-a-view-from-a-trip-to-byds-electric-bus-factory/>

I dream about no more stinky diesels. Older article but a solid read.

<https://arstechnica.com/cars/2020/11/dhls-deliveries-get-greener-with-new-electric-trucks-in-los-angeles/>

Less diesels!

<https://www.bloomberg.com/amp/news/articles/2020-12-04/for-the-first-time-cdc-says-to-use-masks-indoors-when-not-home>

Please wear a mask anytime you go inside a place that isn't your home. I have been following this basic rule for the entire pandemic and lead a fairly normal life (for me). As some of you know I have been working from home for a few years already, so working from home wasn't a change for me. Wearing a high quality mask that is highly reusable has allowed me to be comfortable going on vacation and moving about the country. The only real exception is eating at restaurants, I can't really do that while wearing a mask, so I don't. In good weather eating outdoors is a good choice and I pick up food from restaurants and take it to nearby parks with picnic tables and enjoy it there. Winter isn't great for this, but this is one of my strategies for staying healthy while still maintaining something like a normal life.



The mask I wear when I go indoors. It filters things well enough that you can't smell the stench inside of a pit toilet out house! Masks of this design do have an exhaust port on the bottom of the mask, but it condenses your emissions into larger droplets and then forces them down by your chest. If you need to visit a hospital then I suggest putting a surgical mask over the lower portion of the mask (in front of your chin) to catch all particles of your exhale. I had to visit some hospitals recently due to my youngest getting in a wreck, and I just covered the exhaust port with one of their surgical masks and they were totally fine with it! It seals extremely well around my face so I don't fog up my glasses, and is as good of a filtration setup as you would want to pay for. This setup costs about \$35 for the mask and then 9 to 12 for a set of filters. The amount of use you get out of a set of filters depends on the air quality, the worse it is the faster they will clog up. I usually get around a month with my limited usage.

Also, credit to Bruce J for taking this photo, and that is one sweet charging setup you have there!

I do not directly hold any interest in any car manufacturer or any of their subsidiaries

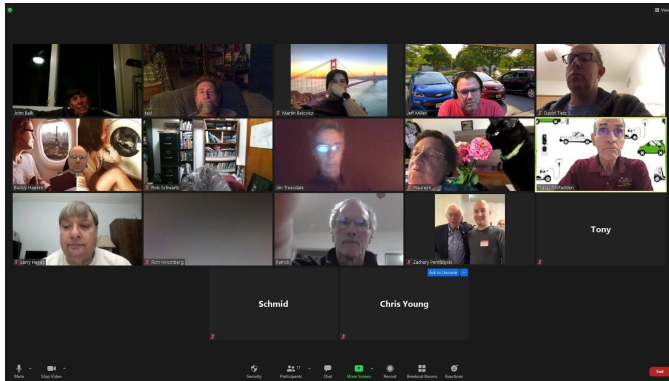
Upcoming EVents

Rich Hirschberg

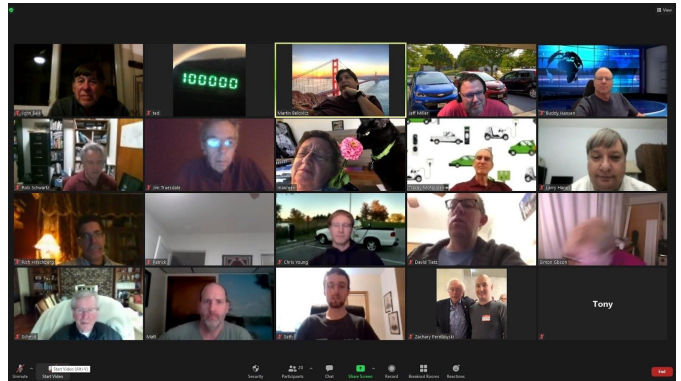
None known on the e-radar

Photos of our Virtual Meeting in November

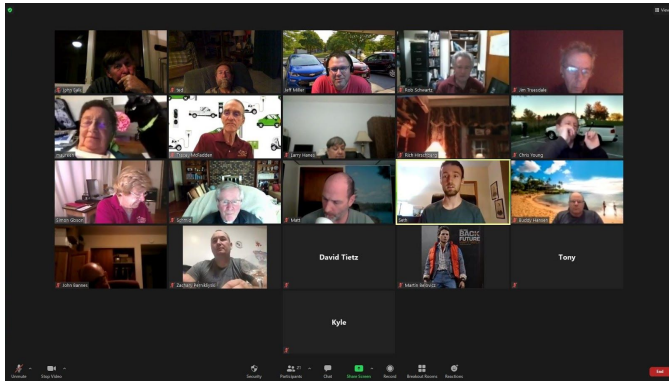
B



Meeting about to start - people arriving



Ted Lowe described his 2000 Dakota EV turning over 100,000 miles



Discussing what EVs we drive and what our EV-related interests are and what we want to learn



Tracey McFadden as "EV Santa" at our December 2020 Board meeting :-)

New FVEAA Website Online! Login and check it out!

Ted Lowe

Hi Folks, If you haven't logged in to our new website already, please check your email for instructions and login as soon as you can! Please let me know if you have any questions. Thanks, ted



FVEAA Web Report

as of 2020-12-07 04:58:08

Website Registered User Statistics

Statistic	Value
Total Users	65
Users Never Logged In	27
% Active Users	58.5%
Ave. Days Since Last Visit	176.9 days

FVEAA On Facebook - Join Us! Like Us!

Ted Lowe

In October 2015, I created a **Facebook group for the FVEAA** and invited all the past and current FVEAA members I know that are on Facebook. There are 86 members as of 3/11/19. If you're on Facebook but not in the group, yet please join us! If you're not on Facebook yet, please consider joining so you can join our group there! This group supplements our forums because it is much easier to use, read, post pictures and videos and get notifications. Please let me know if you have any questions/comments/suggestions. Hope to see you there! <https://www.facebook.com/groups/889497691136309/>

Grant Gerke started **FVEAA's Facebook Page**. Like Us!

<https://www.facebook.com/FoxValleyElectricAutoAssociation>

Membership Update

Ted Lowe

We currently have **52 active paid-up** members. Many members have taken advantage of the multi-year renewals offered by the new website! **Please renew & recruit new folks!!!**



FVEAA Membership Report

as of 2020-12-07 04:58:08

Count of Members by Type

Membership Type	Count	Paid Up
Business	1	1
Family	4	4
Individual	47	45
Lifetime	2	2
Totals	54	52

Other Statistics

Statistic	Value
% Paid Up	96.3%
Avg. Paid Up Days	407.1 days
% With Email	94.4%

Encouraging Our Membership To Grow and Some History

Ted Lowe

We live in a large metro area with 8 million people and EVs are the latest buzz so we should be able to grow the FVEAA! **Please invite your friends, neighbors, family, colleagues**, etc. to FVEAA meetings and Events. Volunteer to attend Events on behalf of the FVEAA (with or without an EV)! Your ideas on how to help grow the FVEAA are welcomed at any time, thanks! Howard Hansen had a **great idea...** giving an FVEAA membership as a gift!

Here is a time-varying graph of our membership size from 2007 to now. Note that we peaked at 255 members in October 2008 when gas was nearing \$5 per gallon. We were also attending lots more invitational Events with our converted EVs. The first Tesla Roadster was just coming into being. **Let's get out there and grow the FVEAA!!!**

FVEAA Paid Up Members as of December 7, 2020 7:02am



Monthly Treasurer Reports

Ted Lowe

As Treasurer, I am publishing a brief Treasurer's Report to our forums around the time our monthly newsletter is published.

I am publishing our various cash balances (Money Market, Checking, PayPal) to this location:

[FVEAA Committees](#) > [Finance](#) > [Treasurer Reports](#)

This area of the forums can only be seen by FVEAA members. As an IL Non-Profit corporation, we have no requirement to publish our assets or financial statements publicly.

Feel free to contact me if you have any FVEAA financial matters to discuss.

Membership Renewals

Ted Lowe

Our membership system sends out "renewal reminder emails" before your membership is due. You will receive up to 3 before being marked "not renewed" (inactive). The sooner you renew, the fewer emails you will receive :) So please pay attention to your email from the FVEAA and renew online using this link (for the easiest approach for all of us):

<https://www.fveaa.org/renew>

THANK YOU for your continued support of the FVEAA!

7:08 p.m. -



Thanks Tracey for backing me up and taking notes at the meeting! Sincerely Bruce

- **INTRODUCTION**
 - Jeffrey Miller, President, called the meeting to order just after 7pm. He asked attendees to comment on the question “What do you want to learn about”.
 - Everyone introduced themselves and talked about topics on their minds.
- **DECEMBER 11TH MEETING**
 - Jeff announced the upcoming Dec 11th virtual meeting. He asked that each person bring a video to share, either homemade or an EV video that might be of interest to the group.
 - Tracey suggested that we might try to make it a Christmas themed video however no need to do so as Jeff emphasized.
- **MEMBER NOTES**
 - Jeff stressed the need to set your 2017 to 2019 Chevy Bolt to Hilltop reserve if you own one. This is due to recent battery fires in this EV.
 - Matt, a new member is working to affect positive policy changes.
 - Seth, another new member, is guiding the Electrathon club in Wisconsin that Rob supports. He is also doing an internship at Tesla.
 - Jim Truesdale is considering what EV to buy to eventually replace his old ICE car.
 - Zachary talked about vacations and car camping in his model 3.
- **BREAK**
- **PRESENTATION - INSTALLING A HOME CHARGING STATION**
 - After a short break Jeff gave his presentation on installing a home charging station including:
 - The why and how permit application process.
 - How you can do the work yourself if desired.
 - Load calculation, materials needed to install.
 - Understanding wire size and temperature rating.
 - Ground wire and conduit sizing and bending.
 - The need to ask for help with your project from FVEAA members
- Meeting was adjourned at 9:40.

<<Shout Out: Thanks so much to Jeff who has been spending a lot of time helping me with my EVSE installation, from planning, helping with forms, providing links for hardware purchases, and providing lots of tools for conduit installation, he spent over 12 hours here and traveling on Saturday the 21st to help me with the initial rough install... amazing !! Thanks Jeff!! Bruce Jones>>

FVEAA Membership Application Form - Version 2014-01-01

Name: _____

Address: _____

City, State Zipcode: _____

Phone: _____ Phone Type: Home ___ Work ___ Cell ___

Email: _____

Please check one: New Member _____ Renewal _____

How did you hear about the FVEAA ? _____

Membership Types and Annual Dues (please circle one):

Individual	\$20
Business	\$100
Premier Business	\$250
Charter Business	\$500

Newsletter Delivery Type (please circle one): No Newsletter Electronic

Please make checks payable to "FVEAA" and postal mail it with this membership application form to:

FVEAA

PO Box 214

Wheaton, IL 60187-0214

Attn: Membership

FVEAA Business Members

EV Converters LLC

Rolly Waller
1401 Burr Oak Rd, Unit 208 C
Hinsdale, IL 60521
Cell: 630-865-5744
Email: rollywaller@gmail.com



EVC will become a Franchisor (when the US government approves the conversion rebate) to appoint Franchisees (eg, service stations, oil change shops, transmission shops, independent mechanics, etc.) to convert Internal Combustion Engine (ICE) vehicles to electric vehicles (EV).