



January 2023 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 **January 20, 2023**
7:00 p.m. and will be IN-PERSON and on Zoom

NEW LOCATION for January and next couple of months

102 S 2nd St, Geneva, IL 60134

MAP: [Unitarian Universalist Society of Geneva](#)

Note for those needing charging: Plugshare shows 1 Tesla HPWC Destination Charger, up to 64A, and 1 Clipper Creek J1772.EVSE about three blocks east of the Unitarian facility at 15 S River Lane, (behind the Police Station - near Atwater's restaurant by the river.) There is also a dual head ChargePoint station two blocks to the NorthWest.

Agenda

- 6:45 Doors Open
- 7:00 Introductions
- 7:40 Ted Liu on road trip strategies
- 8:20 Break
- 8:30 Tracey McFadden on Solid State Batteries

Vice President's Words

Tracey McFadden

Greetings and a Happy New Year to all FVEAA members,

I would like to welcome everyone to our new meeting place for January - The Unitarian Universalist Society of Geneva (UUSG). I have been a long-time member and am confident you will find it to be a very welcoming and comfortable space. Our church is a historic landmark. Here is a little history from the archives:

...By late 1836, a group of settlers from Massachusetts arrived in Geneva. Known as "the Boston Colony," they included some of the most influential of Geneva's early citizens. This group was influential in organizing the Unitarian Church, currently the oldest church in

Geneva, built in 1843, and reportedly the oldest Unitarian church west of New York State.

Our first meeting at this location will be on January 20th beginning at 7 pm. The address is 102 South Second Street, Geneva IL 60134. Parking is on 2nd street or on James Street.

This initial meeting will be downstairs as there is a small folk concert going on at the same time in the sanctuary. The entry door is located midway between the church sanctuary on the north and the attached house to the south on Second Street. Once inside there will be a sign directing you to the basement.

I will be giving a talk on Solid State Batteries and Ted Liu will speak on his ideas for charging your EV when on a road trip.

Hope to see you there.

Tracey McFadden

VP FVEAA

President's Words Jeff Miller

December Meeting

Thanks to everyone who ventured out! I had a good time, hopefully everyone else did too.

January Meeting

Ted Liu is returning for the second time in January and he plans to show us how he takes road trips in his Tesla. His strategies are different from mine, so even if you have heard my point of view on road trips, his will be different. He also takes more road trips each year than I do, so I expect to pick up a few tips. Second up we have Tracey McFadden with an overview on Solid State batteries. I haven't heard much news on them lately, so I am curious to hear what he has to say about them. On top of that, we will be meeting for the first time in a new location, and I am excited to see how that goes!

Preparing our country for the future

In case you haven't heard North America built cars qualify for the full \$7500 tax credit until the end of March. This excludes the Kia and Hyundai of course. Tesla's and GM's vehicles are back in the hunt though.

<https://www.irs.gov/credits-deductions/manufacturers-and-models-for-new-qualified-clean-vehicles-purchased-in-2023-or-after>

On New Years Eve I passed the EPA 608 Universal exam, so I am now certified to handle refrigerants in the US. As most of you are aware I plan to get rid of my gas furnace this year and take advantage of the IRA tax credit for Heat Pumps. Just FYI, your heat pump has to show up on the Energy Star approved list. This isn't just the outdoor unit, but both the outdoor and indoor unit combined. If you are looking to do a drop in replacement for a gas furnace, then you will need to be very careful to get a combination that is approved, to get the tax credit.

<https://www.energystar.gov/productfinder/product/certified-central-heat-pumps/results>

If anyone is wanting to get serious about this, the best advice I can give you is to get a home energy monitoring system that can track the run time on your current furnace before winter ends. If anyone wants help, let me know. By tracking actual furnace run time, having an energy tracking system allowed me to check my actual utilization on that really cold and windy night we had back in December. It caused me to revise my estimates up by about one additional ton of heating capacity. I am looking at 72,000 (6 tons) of heat pump capacity at -10 to keep up with a cold and windy night. That is a pretty big install, and I haven't settled on exactly how I am going to get there yet. The ceiling area I insulated last winter performed quite well. There are a few corners that leak more than I would like, but I can't get at them without removing drywall.

Articles I found interesting

<https://www.teslarati.com/wyoming-phase-out-evs-2035/>

I don't know what they will buy/sell there if they don't allow EV's in 2035, but I guess they will figure something out.

<https://www.businessinsider.com/ram-1500-electric-pickup-truck-concept-ces-ford-lightning-chevy-2023-1?amp>

<https://pme.uchicago.edu/news/researchers-zoom-battery-wear-and-tear>

<https://centerforpolitics.org/news/moon-rovers-boots-on-mars-and-the-cosmos-a-conversation-with-nasas-bill-nelson/>

Not EV related, but interesting if you are into space

<https://www.distilled.earth/p/ventilation-isnt-enough-to-make-gas>

As we face the reality of migrating off of natural gas, it's always interesting to see these articles about indoor pollution. Especially if someone does an exceptional job air sealing their home.

https://youtu.be/_43-CPgqp4g

An excellent video on fast charging in 2022

I will say that my experience with my Tesla on Christmas Eve wasn't that every Tesla station worked. It was quite cold and three of the older stations with thick cables weren't staying on their hooks. Then they would fall nose down into the snow. The heat from charging would melt and then refreeze the snow, and that was the end of that. My luck with the 250kw stations was better. It's possible they are using the liquid cooling system to keep the pins warm enough not to freeze? Or that was just luck.

<https://jalopnik.com/heat-pumps-massively-improve-ev-range-in-cold-weather-1849965411>

<https://spectrum.ieee.org/sodium-ion-battery>

Gibson's Garage

Simon Gibson

Not much to report this month but I am now looking to get fully conversant with CANBus... This is the messaging system found in most, if not all, modern vehicles. It's a robust system but there can be some head scratching. However, by becoming CANBus conversant perhaps the EV repair and rebuild and conversion industry will have a better time integrating products from different vendors!

On another note, the sudden reduction of Tesla prices makes for an interesting and perhaps challenging conversation. However, I'm thinking about the long term life cycle of vehicles. Where does Tesla fit in that

scenario? If new vehicles start being produced by auto manufacturers with much longer warranties perhaps the actual Total Cost of Ownership (TCO) will become a better metric to measure the cost of personal transportation, and indeed the actual carbon cost.

Upcoming Events - 2023

Rich Hirschberg

Nothing on the 2023 calendar yet.

Photos of our Meeting December 9, 2022

Bruce Jones

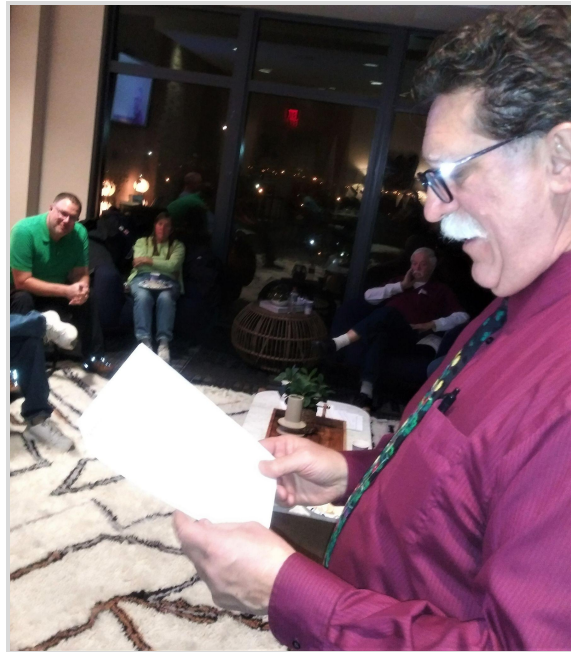
**FVEAA Holiday Party
December 09, 2022**

By Bruce Jones



- Jeffrey Miller - President
- Tracey McFadden - Vice President
- Ted Lowe - Treasurer, Web site, Membership,
Newsletter Distribution
- Bruce Jones - Secretary
- Rich Hirschberg - Board Member/ Outreach
- Marty Belovicz - Board Member
- Simon Gibson - Board Member

Holiday party with food, trivia game (Rich Hirschberg at right) and music





Kathy and Tracey McFadden



Julie and Simon Gibson



Howard enjoying the food and conversation



Simon and Tracey entertaining us with EV holiday songs!



Have a great New Year FVEAA!

Welcome the FVEAA's new Charter Business Sponsor!

Ted Lowe

Say welcome to our new sponsor: **Chicago Area Clean Cities (CACC)**! CACC sponsored the north NDEW Event with the help of Rich Hirschberg and Samantha Bingham. Our website sponsor's page (<https://www.fveaa.org/sponsors>) has been updated as well as the sponsors listing in this newsletter. Thank you for your support and welcome aboard!

See one of the officers to get some cards to hand out to people at various Events and daily life to promote EVs and our organization!

Fox Valley Electric Auto Association

PO Box 214
Wheaton, IL 60187-0214

630-260-0424
contactfveaa@fveaa.org

Free Yourself From The Pump^{fm}



Join Us and Discover How!

Check fveaa.org for
details about our
monthly meetings!



Login to our FVEAA website for access to lots of member-only tools!

Ted Lowe

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



FVEAA Web Report

as of 2023-01-17 04:58:10

Website Registered User Statistics

Statistic	Value
Total Users	99
Users Never Logged In	38
% Active Users	61.6%
Ave. Days Since Last Visit	507.1 days

FVEAA On Facebook - Join Us! Like Us!

Ted Lowe

The **FVEAA Facebook group** has 119 members as of 1/17/22! 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/>

Here is the **FVEAA's Facebook Page**. Like Us!

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

FVEAA On YouTube - Check out our videos!

Ted Lowe

The **Fox Valley Electric Auto Association** has a YouTube channel! Subscribe to us and check out our videos! We've had this channel for many years but we're going to start using it more to attract new members and promote EVs. Please let me know if you have some FVEAA-related videos to post.

https://www.youtube.com/channel/UCg_Pgp6q-HEuMICWMO2akPw

Membership Update

Ted Lowe

We currently have **60 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 2023-01-17 04:58:10

Count of Members by Type

Membership Type	Count	Paid Up
Business	1	1
Charter Business	1	1
Family	3	3
Individual	63	62
Lifetime	2	2
Totals	70	69

Other Statistics

Statistic	Value
% Paid Up	98.6%
Avg. Paid Up Days	356.0 days
% With Email	97.1%

Encouraging Our Membership To Grow and Some History

Ted Lowe

We are growing! 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 January 17, 2023 8:50am



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!

Holiday Party

- Marty Belovicz hosted the get-together at his apartment complex in Arlington Heights
- Everyone who attended the party brought various dishes of delicious food to share
- Tracey and Simon played their guitars and led the group in singing several entertaining holiday songs with EV lyrics
- Rich Hirschberg hosted an extensive Holiday trivia game - very educational and fun!
- Bruce provided an FVEAA 2022 year end review presentation, a photo summary of the year's EEvents that ran throughout the evening
- The party ended around 9:45 p.m.

Have a Happy New Year EEveryone!

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 Charter Business Members

<p>Chicago Area Clean Cities</p> <p>Samantha Bingham 2 N LaSalle St #950 Chicago, IL 60602 Email: info@chicagocleancities.org Web: https://chicagocleancities.org</p>	 The logo for Chicago Area Clean Cities (CACC) is an oval-shaped emblem. The top half of the oval contains the words "CHICAGO AREA" in a blue, sans-serif font. The bottom half contains the words "CLEAN CITIES" in the same font. Inside the oval, there is a stylized illustration of the Chicago skyline, including the Willis Tower and other skyscrapers, set against a blue background with a white sun and a white cloud.
<p>Chicago Area Clean Cities (CACC) is a 501(c)(3) not-for-profit working to promote the use of clean fuels for clean air in the Chicago area and throughout Illinois. Our coalition includes people from private business, academia, government, scientific research and energy and environmental services. Our main goal is to help with the adoption of cleaner transportation options.</p>	

FVEAA Business Members

<p>EV Converters LLC</p> <p>Rolly Waller 130 Windsor Park Dr, C121 Carol Stream, IL 60188 Cell: 630-865-5744 Email: rollywaller@gmail.com</p>	 The logo for EV Converters LLC features a stylized black electrical plug with a yellow lightning bolt striking it from the left. To the right of the plug, the text "EV Converters" is written in a bold, black, sans-serif font, with "LLC" and a trademark symbol (TM) below it.
<p>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).</p>	