



June 2016 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

Next Meeting

Friday June 17, 2016 7:00 p.m. to 9:30 p.m.

Community Christian Church

1635 Emerson Lane
Naperville, IL 60540

[Google Map](#)

Agenda

- 6:30 Doors open -> Sign-in Sheet, Tags.
- 7:00 Call To Order, Welcome Introductions
- 7:10 Old Business / New Business
- 7:15 Committee Reports
- 7:20 EV Jeopardy! With Dr. Rich Carroll
- Break
- 8:20 Conversion of a 1930 Hupmobile street rod to Plug-in Electric Vehicle. Bruce Jones owner, with conversion by John Emde and John Jeide of Build-EV
- 9:15 Close

President's Words

Bruce Jones

Hi EVeryone;

GREEN FEST

This past Saturday June 11, Mike Willuweit, Rich Resne, Jeff Miller, Rob Schwartz, Maureen Stillman, Chris Sharp and I had a great time fielding EV questions from a steady stream of environmentally friendly folks at the Aurora Green Fest. The day was hot but the breeze was cool, while various musical groups rocked out on the nearby sound stage. Thanks EVeryone for making it such an enjoyable day!!



This Month

This month I'll cover the conversion of the 1930 Hupmobile street rod to a Plug-in Hybrid Electric Vehicle (PHEV) through the excellent work of John Emde and John Jeide at Build-EV in Crest Hill. This has been a year-long process in several phases and we'll be showing how it all came together. Thanks John and John!!!

Polo Shirts

Rich Carroll is getting a second bid on the black polo shirts, so stay tuned!

Coming Events →

Here's an event that Rich Carroll brought to our attention! Oh and Happy Father's Day!

FATHERS DAY OPEN HOUSE SUNDAY JUNE 19TH



At the National Monument Visitor Center
11141 S. Cottage Grove - Chicago
9:00am to noon

Additional Pullman attractions will be open, including, the Pullman Administrative Clock Tower Building, with exhibits of Pullman Company memorabilia, the Best Junior Ranger, the Pullman Porter Exhibit, and the Chicagoland Lionel Model Train Club display. Also open will be the only vintage house exhibit - the Thomas Dunbar House (11:00 to 2:00). For information please call 773-785-8901.

**Antique Vehicle Show this coming
Sunday June 19, 9:00 a.m. - NOON
at the Pullman National Monument
Visitor Center
11141 S. Cottage Grove, Chicago**

- Another NEW Event **Yorkville Cruise Night** (thanks to **Chris Sharp** for letting us know)
Dates: First Wednesday in July and Aug (**July 6 and Aug 3**) from 5 - 8 p.m.
Riverfront Park 131 E Hydraulic Ave. Yorkville
- Event: **Green Fair on The Fox**
Date: Saturday, August 13 10 am to 4 pm
Location: Batavia Riverwalk 305 S. Jefferson · Batavia, IL 60510 · USA
FEE: free - outdoor booth for non profit. Notes: lots of sustainability vendors
- Event: **IL Renewable Energy Association Sustainability Fair** (Jeff Green)
Date: Saturday Aug 20, 815-732-7332 www.illinoisrenew.org
Location: Located at the Ogle County Fairgrounds, Oregon, IL
- Event: **National Drive Electric Week**
Date: September 10-18, 2016,
EVENT 1 Date Sunday 9/18 setup Noon, present from 1 p.m. to 4 pm, then pizza!
Location: Naperville Test Track
- EVENT 2 **National Drive Electric Week 2** TBD

Monthly Board Meeting / Conference Call

The FVEAA officers hold a conference call on the first Thursday of the month to discuss the upcoming events. We held a call on June 2 and a board meeting at Bruce's after the Green Fest on June 11. Topics included upcoming presentations, efforts to increase membership, Polo shirts, getting 501C3 status, upcoming events and writing a history of the FVEAA.

See you Friday!

Sincerely, Bruce

This Month's Presentations May 20, 2016

- Rich Carroll will be taking us through a fun game of Electric Vehicle Jeopardy for you Alex Trebek fans
- After the Break we'll have a complete Hupdate from Bruce Jones, John Emde and John Jeide .on the conversion of the 1930 Hupmobile street rod to a Plug-in Electric Vehicle

Photos of Last Meeting May 20, 2016

Mike Willuweit

ELECTRIC BIKE NIGHT





FVEAA Facebook Page - Like Us!

Grant Gerke

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

FVEAA Facebook Group - Join 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 47 members so far. 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 will help to replace 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/>

BATTERY TECH - Highs and Lows

I keep a continual watch for new items in battery technology, and still think that the **Joint Center for Energy Storage Research** (J-CESR) group, headed by George Crabtree, is at the very top of the list. An overview of their work would show that they started by comparing electron rings and combining powers of all known useful atomic elements, and on the computer tried millions of combinations to see what anodes, cathodes and electrolytes would yield the best. Then they took the leading contenders and are building actual models, and testing them. This is really an interesting way to start, and George's announced goal was to find vehicle batteries that were 1/3 of the size of Lithium Ion, 1/3 of the cost of Lithium Ion, and within 5 years of starting the program. For starters, begin with some of the articles on the main page at: <http://www.jcesr.org/newsroom/> Follow what interests you. If you love George Crabtree's powerpoint presentations, his most recent one is at: <https://anl.app.box.com/v/15-10-11jcesr-ecsphoenix> George packs more into his e-slide presentations than anyone else (Sorry Billy and Paige, your slides were phenomenal), and George's are the standard I measure against. George (and his colleagues) make them reasonably clear.

But today's subject for new battery materials won't be found by JCESR, and isn't likely to be appropriate for transportation uses. But inexpensive, low power batteries that use FREE chemicals in third world countries is enough to take notice. The University of Bath (forget the puns, this is a world class research university in Bath England) have published a most interesting article about their development of a tiny, new fuel cell that uses human urine as it's power source. A summary is here:

<http://www.bath.ac.uk/research/news/2016/04/18/%E2%80%98pee-power%E2%80%99-as-researchers-turn-urine-into-a-sustainable-power-source-for-powering-electronic-devices/> and toward the end of the summary is a link to the complete article. Essentially University of Bath researchers, along with colleagues from Queen Mary University of London and the Bristol Bioenergy Centre have developed a new Microbial Fuel Cell (MFC) The idea is to be able to produce small amounts of electric power in areas not covered by the energy grid. They appear to have shown that the MFC can complete several charge discharge cycles on Urine Power, but they are still working on maximizing the power.

Certainly, "Pee Power" needs further development, but this holds a lot of promise for very low power electronic devices in third-world countries.

VOICE CONTROL

Another interesting development comes our way courtesy of Jason Goecke. He realized the real value when Amazon introduced their Echo, which at first glance appears to be a small cylindrical blue tooth speaker. It does have a high quality microphone in it, and Amazon is promoting it as a desktop personal assistant, or a voice activated audio streaming system. While it certainly has those features, it does have several additional levels. Ask Echo for a joke, and it generates one of an almost endless series of puns for grade school kids. It

appears to be better than Siri, or Cortana, or Google Now, with much wider voice recognition, both in more voices, and in more words.

Amazon has now announced that a Skills Kit, or software development kit can be downloaded, and programmers can tap into the core code, and modify it as needed. Jason Goecke saw the possibilities, and talks to his Echo, and it nicely combines commands on different platforms. In Jason's world, he issues one command and his garage door is opened, and his Tesla pilots itself out of the garage, up to his door and announces it is waiting, with the cabin at a predefined temperature. See:

http://www.gizmag.com/tesla-model-s-amazon-echo-alexa-autosummon-hack/43054/?utm_source=Gizmag+S subscribers&utm_campaign=31e16bece5-UA-2235360-4&utm_medium=email&utm_term=0_65b67362bd-31e16bece5-91720873

<http://www.gizmag.com/amazon-echo-review-2015/37951/>

Membership Update

Ted Lowe

We currently have **86** members down 13 from last month!

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 anytime, thanks! Howard Hansen had a **great idea**... giving an FVEAA membership as a gift!



FVEAA Membership Report as of 2016-06-13 04:58:07

Count of Members by Type

Membership Type	Count	Paid Up
BusinessPremier	1	1
BusinessStd	3	2
Family	8	8
Individual	71	71
LifetimeInd	3	3
Totals	86	85

Other Statistics

Statistic	Value
% Paid Up	98.8%
Avg. Paid Up Days	197.9 days
% With Email	96.5%

Meeting Minutes - May 20, 2016

Michael Willuweit

7:00 The meeting hit the parking lot! We convened in the parking lot where we had "Electric Bicycle Night." Dan Rios from SAM's bikes brought two OEM bicycles to show off an for us to ride. We are going to try to bring in SAM's as a business sponsor and hopefully those interested in e-bikes will give their bikes a serious look. For those more ambitious, Miodrag Zubic showed off his homemade e-bike conversion. The bike features a

1500 Watt rear hub motor that is power by a 72 Volt LiFePo4 battery pack. Ted Lowe and I popped some wheelies en route to a very fast ride around the parking lot at speeds pushing 35 MPH. It's definitely a fun ride and not for the faint of heart. Rob Schwartz showed off his electric tricycle. It features quite a unique gearing and battery box. Although there was talk of a race none was held, and no crashes or injuries were reported.

8:15 Meeting convened inside.

Call to order and introductions

8:30 Old business

8:35 New Business, mostly discussing future events.

8:45 Kevin Zak's video of past FVEAA events, and importance of renewable energy.

Membership Form

Ted Lowe

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



ELEVATE ENERGY
Smarter energy use for all

Elevate Energy
Mary Jo Warskow
300 S Green St, Suite 300
Chicago, IL 60607
Phone: 773-922-3018
Web: hourlypricing.comed.com

CHARGE YOUR VEHICLE FOR LESS

WITH HOURLY ELECTRICITY PRICING

It is great having near zero, or sometimes even negative, rates to fill up my car for nearly free or even better!

—Daniel H., Hourly Pricing participant since 2015

ENROLL NOW

ComEd powering lives
electricity



**NetGain
Motors, Inc.**

Exclusive worldwide distributor of
WarP™, ImPulse™, and TransWarP™
electric motors for use in electric vehicles
and electric vehicle conversions.

WWW.GO-EV.COM 800 S State St. Suite 4
Lockport, IL 60441
630.243.9100



Best Hybrid Batteries

Only The Best

Michael Bradley
18600 IL-59
Shorewood, IL 60404
Phone: 708-669-9402
Email: besthybridbatteries@gmail.com
Web: www.besthybridbatteries.com