



September 2014 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

September 19, 2014

Community Christian Church

1635 Emerson Lane

Naperville, IL 60540

[Google Map](#)

Agenda

- 6:30 Doors Open
- 7:00 Call to Order, Welcome and Introductions
- Commemoration - CCC EVSE Dedication
- Committee Reports
- Old Business / New Business
- Wanxiang Solar Energy Tour
- Annual Elections
- Break
- Presentation: Raymond Christie and the solar powered canoe trip(s) down the Mississippi
- 9:15 Close

President's Words

Bruce Jones

Hi EVeryone,

Thanks to Ted Lowe for presenting last month and backing up V.P. Rich Hirschberg and me last meeting as each of us we were traveling. We really appreciate Damian Herd from Nissan coming all the way from Texas to speak as well about the Nissan Leaf.

Based on the emails I'm getting, and the excellent publicity that Grant Gerke is generating, and the number of people we've already got signed up to come to the **Ride-N-Drive** on Sept. 21, we're going to have a **huge crowd** this year! Please sign up at the NDEW web site below to indicate if you'll be there, if you're bringing an electric vehicle, and if you'll be allowing people to take spins around the test track.

National Drive Electric Week Event this Sunday September 21!

WHAT: Electric Vehicle Ride N Drive Event
For National Drive Electric Week
<https://driveelectricweek.org/event.php?eventid=171>

HOST: Fox Valley Electric Auto Association

WHERE: Naperville Car Test track at 1720 West Jefferson Ave.

WHEN: Sunday Sept. 21, 2014

SET UP: 12:00 noon - 1:00 p.m. (for dealers and FVEAA)

OPEN TO PUBLIC: 1:00 - 4:00 p.m

TAKE DOWN: 4:00 - 5:00 p.m. then pizza!

[Map and Directions](#)

We now have the following dealers attending the event. **DOUBLE the number from last year**

- Nissan with **four (4)** Leafs
- Bill Jacob's BMW with **one (1)** i3
- Chevrolet of Naperville with **one (1)** Volt
- Max Madsen Mitsubishi with **two (2)** "i"s
- Innova UEV bringing **one (1)** prototype "Dash" (check this out <http://www.innovavev.com/>)

Other attendees

- Kapital Electric of Batavia - Solar Panels for charging EVs

At last year's event in 2013 we had the following attendance

- 26 Electric vehicles
- 110 Attendees
- 70 Test drives

This year we already have **50 people** coming, and 18 vehicles (9 for driving) plus the 9 from the dealers, which means the **27 electric vehicles** is already more than last year, and i KNOW many of the FVEAAers are not yet signed up yet, but bringing an electric vehicle. PLEASE Sign up so we can plan the vehicle parking arrangement.

And three of the companies have said they will sign up as corporate sponsors. (Thats at least \$100 each)

This the biggest event of the year for us, so please bring out your electric vehicle the Sunday after the meeting! Come on out, y'hear!?

Elections

Officer Nominations were opened at the August meeting, which will conclude with the elections at the September 19th meeting. We'll finalize nominations and vote for President, Vice President, Treasurer, Secretary, and the three members of the Board of Directors.

Sincerely,
Bruce

FVEAA is on Facebook - Like Us!

Grant Gerke

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

This Month's Presentations

- **CCC Charger Commemoration**

We'll commemorate the installation of the Clipper Creek Charging station at Community Christian Church, where we've been welcome guests since February 2012. The Clipper Creek CS-40 - 208/240V 30A Single Level 2 charging station is installed and fully operational. We'll be commemorating this occasion with a photo op, very much like we did in May for the Fox Valley Ice Arena charging station. Coincidental that these two EVSE events happened so close considering they were years in the planning.

- **Wanxiang Solar Panel Tour**

In June, eleven of us had a nice tour of the Wanxiang Solar Panel Manufacturing facility near Rockford. We'll have a quick review of that tour and the 3MW solar farm nearby.

- **Raymond Christie and his Solar Powered Electric Canoe**

Ray has just come back to the U.S. from Switzerland where he presented on adventures in his electric, solar powered canoe traveling down the Mississippi River. He just had to translate it from French into English and will detail his amazing trip(s).

CCC Charger Update

Bruce Jones

We will officially commemorate the newly installed CCC charger at the Sept. 2014 meeting!



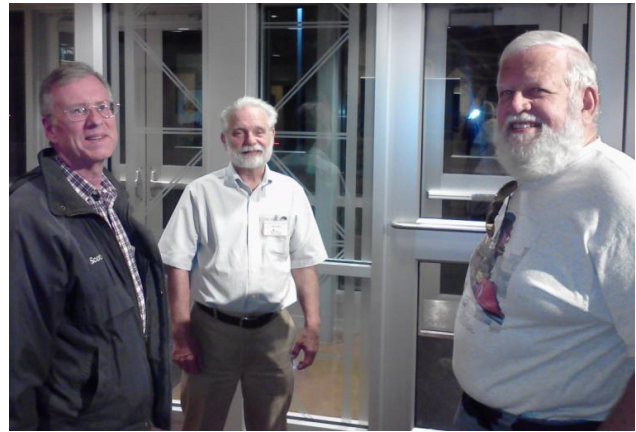
Ted Lowe leads the meeting



Damian Herd, Nissan Marketing (all the way from Texas!)



Jeff and Mike!



Hangin out in the lobby!

Rich's Ramblings

Rich Carroll

Some very interesting things have crossed my desk recently. Last week the International Manufacturing Technology Show (IMTS) was in town at McCormick Place. I didn't go, but a good friend, Chuck Derer did. You will probably remember Chuck from some of the videos he did at Pioneer Conversions. Chuck's hobby is to video record enthusiast cars, and take his viewers for a virtual ride. Chuck has his own YouTube channel, called "Rides with Chuck" and over the years I have loved his short pieces and taken virtual rides in cool customs, rat rods, restored antique cars, a few vintage airplanes, and even trains. Chuck went to the IMTS show, and found a small EV manufacturer 'printing' a car with a 3D printer at the show. While the legal difficulties of 3D printing a car and getting it licensed to drive it in one day are unreasonable, Local motors was offering short test runs (not on public streets) inside McCormick Place on a car they had just printed. Of course, Chuck went for a ride. See:

<https://www.youtube.com/watch?v=aMQJkkchTi4&feature=em-uploademail> and then, after your interest in at full throttle, see: <https://localmotors.com/AlexFi/the-3d-printed-car-aka-direct-digital-manufacturing/>

The ability to print exactly what the customer wants while the customer watches is astounding. These vehicles eliminate the tooling step almost completely in the automotive creation process. While you are watching the YouTube video, you may want to subscribe to Chuck's channel, you will get notices when he videos a ride in another vehicle.

While Chuck doesn't mention price, the company is forecasting prices from \$18,000 to \$30,000 depending on customer specifications. Printing started for the particular car in Chuck's video on Sunday, and it was driven off the show floor on Saturday. About 40 parts of the car, including the motor, controller, wiring and suspension was supplied by other companies, and all other parts were printed on the trade show floor. During assembly, it was noted that the fenders were not the specified part, the incorrect fender had been printed. A new fender file was loaded into the computer, and the second set fit perfectly. This particular printer uses a substrate mix of plastic and carbon fiber, and simply prints the parts by bonding a new layer of substrate onto the existing piece. As pieces are printed, they are bonded (glued) to previous parts for assemblies. Parts are generally printed in the order needed, so that storage space is minimized. Big parts are scheduled for the overnight sessions. Can they sell these? The owner of the show purchased the prototype, right on the show floor.

Numerous designers, including some very top-end engineers, have submitted drawings and proposals. Opening the cars section at: <https://localmotors.com/explore/> will showcase what is possible.

On the hardware front, comes a press release from a California research group who are closely examining lithium ion cell life with charging technique. Their research seems to say that the slow charge we have been

taught, might not be the only factor in long battery life. Curiously, in their press release is the statement, “. . . the researchers are proposing several ways to charge batteries more uniformly, a change that could take the average life of a lithium-ion battery from a couple of years to around 10 years.” I suspect they have used a poor charging algorithm for their comparison, as most lithium ion batteries I know will face thousands of cycles with only minor degradation. This undocumented statement makes me doubt the entire news release, but you are welcome to read it yourself:

<http://www.pcworld.com/article/2683012/want-lithiumion-batteries-to-last-slow-charging-may-not-be-the-answer.html>

On the local news front, you will perhaps remember the J-CESR initiative (Joint Center for Energy Storage Research) announced by Argonne National Labs in the past. They are a good portion of the way through their 5 year program to develop a Lithium Ion replacement battery that will be 1/5 of the cost and 1/5 of the size. They are currently working on several ideas: <http://www.anl.gov/photos/joint-center-energy-storage-research-jcesr>

On the racing front, visit

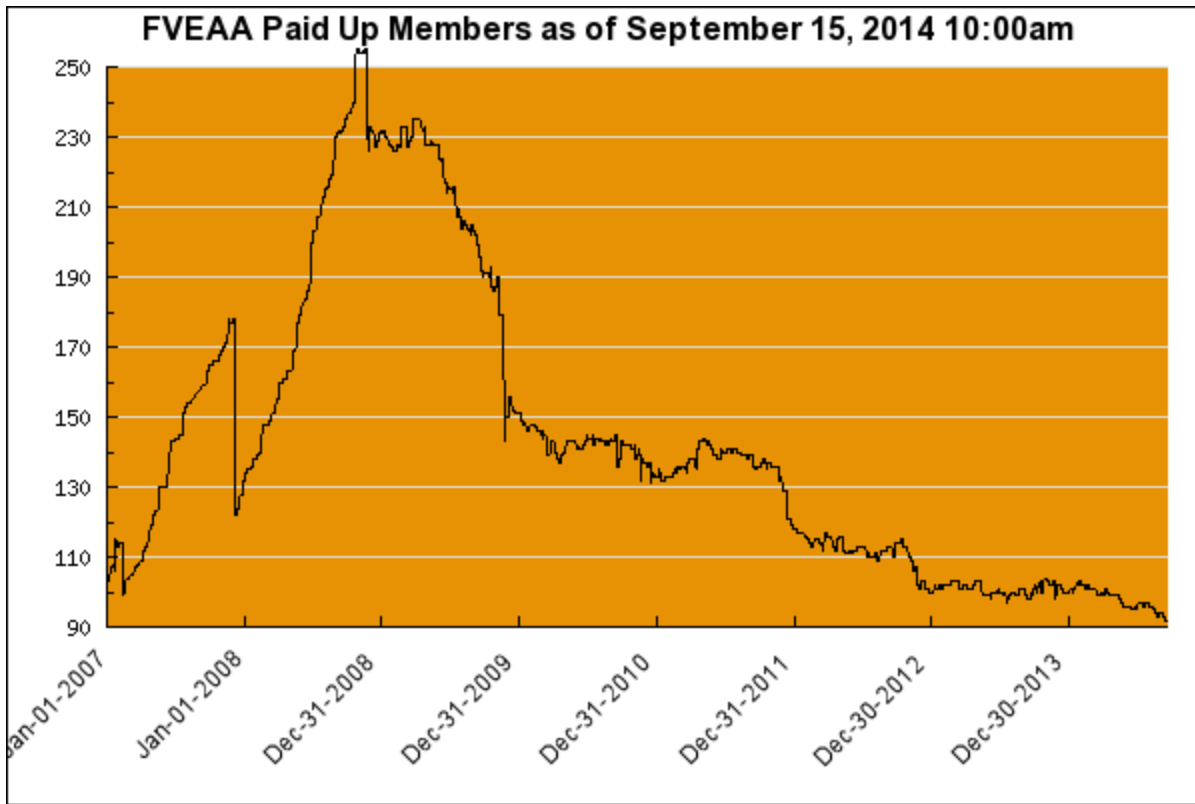
http://fusion.net/modern_life/story/race-car-driver-leilani-munter-ambassador-electric-1029811 for the ARCA driver Leilani Münter's story. She refers to herself as a “vegan hippie chick with a racecar” but she drove her Tesla from North Carolina to the Chicagoland Speedway in Joliet recently to underscore her commitment to the environment. Note her license plate at 0:46 into the video. You will also see Jeff Chamberlain from the J-CESR project in Leilani's video. Leilani is an EV activist, an environmental activist, and an animal activist. She recently finished 12th at ChicagoLand Speedway, and was on the same lap as the leaders in the July 19 ARCA race. For more info about Leilani, see:

<http://carbonfreegirl.com/neverknow>

Membership Update

Ted Lowe

We currently have only 92 paid-up members which is very low historically for the FVEAA. 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!



Meeting Minutes - August 2014 *Ted Lowe*

Ted Lowe ran the meeting in Bruce Jones' absence. A couple of first time attendees introduced themselves. The nominations for FVEAA officers was opened until next month's elections.

- Committee Reports: None
- Old Business: None
- New Business: None

Damian Herd gave her presentation and answered questions.

We took a break and were able to ride and drive the Nissan Leaf that Damian brought to the meeting.

Ted Lowe gave a presentation on the J1772 standard as implemented by the OpenEVSE project.

The meeting was adjourned at 9:30 p.m.

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

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Phone: 1-888-202-RRTP (7787)

Web: ComEd.com/RRTP

The ComEd Residential Real-Time Pricing (RRTP) program is an hourly pricing program for residential customers. This program allows you to pay the hourly, market price for electricity. With real-time hourly market prices, it is possible for the price of electricity to be negative for short periods of time, typically in the middle of the night. Since ComEd RRTP participants pay the market price of electricity (with no markup), they are actually being paid to use electricity during negative priced hours, making it an ideal fit for electric vehicle owners who charge at night. Contact an RRTP specialist to see if you are a good fit for the program



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