

Fox Valley Electric Auto Association

PO Box 214

Wheaton, IL 60187-0214

Return Service Requested

NOV 2013 FVEAA Newsletter

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

Next Meeting

November 15, 2013

Community Christian Church

1635 Emerson Lane, Naperville, Illinois 60540

at the intersection of Ogden and Rickert Drive in Naperville

Also called the "Yellow Box." We'll meet in the little theater west side, 1st floor

Map: [Community Christian Church](#)

DOORS OPEN 6:30 p.m. MEETING STARTS 7:00 p.m. ENDS 9:15 p.m.

Agenda

- 6:30 Doors Open
- 7:00 Call to Order, Welcome and Introductions
- Committee Reports
- Old Business / New Business
- Presentation: Tom Brunka returns! - BMS-Less Lithium Ion Batteries
- Break
- Presentation: Kevin Stutenberg - Testing and Analysis of Electrified Vehicles at Argonne Labs
- 9:15 Close

FVEAA is now on Facebook thanks to member Grant Gerke. Check it out and **Like** us at:
<https://www.facebook.com/FoxValleyElectricAutoAssociation>

President's Words

Bruce Jones

Hi EVeryone

Hi Everyone,
Zenn-tastic

Last month we really had some entertaining presentations including the first time anyone has done a guitar picking song. Deb Seymour sang "Little Zenn Car" then gave an informative and lively update from the Seattle Electric Vehicle Association. Later Tom Brunka provided some incredible insights into the small world of DC electric motor brushes, and he squeezed in a sneak preview of the controversial subject - using Lithium ion batteries without a battery management system. Tom is penciled in on the agenda again for this upcoming meeting to complete his BMS-less battery presentation, and we have an insightful technical presentation from Kevin Stutenberg on the electric vehicle testing facility at Argonne Labs.

DECEMBER PARTY - Sign up now!

Thanks to Todd Dore's efforts, here are the details for the upcoming 2013 FVEAA Holiday Party:

Place: Irish Times - 8869 Burlington Ave., Brookfield, IL (In the Back Cottage Party Room)

Date: Friday, Dec. 13th (Note this is the 2nd Friday of December)

Time: 7:30pm-10:30pm.

Agenda: We'll eat, talk, make some announcements and then special gifts again from the Pres.

Menu: Buffet style - choose from 2 courses. Likely Irish Guinness Stew (w/Soda Bread) and Fish & Chips

Included: A soft drink or water or iced tea, as well as one alcoholic drink per person (can be either beer, wine, or mixed drink).

Extra: For additional alcohol the room has its own cash bar with bartender.

Room: Very cozy place - fireplace and several large tables.

Qty: We need to provide a minimum of 35 guests so **SIGN UP NOW!**

Cost: All-in price (including tax and tip) is \$20 per guest. We can collect that from everyone starting at the November meeting.

Commit: Todd put down a deposit of \$200 for the room so we're committed! Everyone sign up and bring your spouse.

Screen: They do have a large TV so we may hook up a laptop for a presentation

Changes

Newsletters: Due to logistical issues and the desire to keep green, we're eliminating the mailing of hard copies of the newsletter starting in January 2014.

Dues: We're eliminating family memberships to simplify the membership process, and after 30+ years, increasing dues to \$20 per year. (This is partly due to the ease of handling a \$20 bill).

It's still the best deal in town and funding additional charging station efforts will be easier with this small increase.

Thanks
Bruce

This Month's Presenters

"PART 2 - BMS-LESS LITHIUM ION BATTERIES" - Tom Brunka

Tentatively as of this date, Tom Brunka will make the hike back to Naperville from Milwaukee again to continue his presentation on the controversial subject of using Lithium Ion Batteries without a Battery Management System. After a tantalizing and informative fifteen minute overview last month, we've penciled him in again and he hopes to make it back and fill us in on the remainder of this important EV topic.

"TESTING AND ANALYSIS OF ELECTRIFIED VEHICLES at ARGONNE LABS" - Kevin Stutenberg

Kevin Stutenberg is a Research Engineer in the Advanced Powertrain Research Facility at Argonne National Laboratory. His presentation will provide an overview of Argonne Lab electric vehicle testing facilities and processes. In addition, he will discuss recent results and analysis from various electrified vehicles and alternative fuels.

Kevin Stutenberg completed a mechanical engineering degree at the University of Wisconsin-Madison, where he participated in the development of two prototype hybrid electric vehicles. Following graduation, Kevin spent several years as a Research Engineer at the Gas Technology Institute developing and evaluating new technologies for the natural gas industry. In his current role at Argonne National Laboratory, Kevin is a member of a team of researchers who evaluate advanced vehicle technologies for the United States Department of Energy in an effort to assist in public knowledge generation and vehicle standards development.

Speaking of Argonne...

Rich's Ramblin's

Rich Carroll

Energy Storage: JCESR Goes Beyond the Lithium Ion Frontier

<http://www.fveaa.org/blogs/richcarroll/2013/11/energy-storage-jcesr-goes-beyond-the-lithium-ion-frontier/>

Posted on November 6, 2013 by Rich Carroll

JCESR - Joint Center for Energy Storage Research

Remember when Argonne Labs announced it's JCESR research program? I thought an update was in order. George Crabtree, Director of the Joint Center for Energy Storage Research is giving an update this month, telling where JCESR is heading. If you will remember their goals of 1/5 the cost of lithium, 5 times more powerful, and available in five years. JCESR formed a consortium of 14 major institutions to push this forward, some national labs, some universities and some private companies. JCESR received a \$120 million grant to develop the next generation of batteries, going beyond lithium ion.

The presentation is set for the Advanced Photon Source Auditorium at Argonne on the evening before the FVEAA meeting. I hope to be able to update FVEAA at the meeting. The lecture is free to the public, and does require registration. Once registered, you will be admitted to the poster session before, and light refreshments at a reception, the talk by Dr. Crabtree, and a Q&A session afterward.

Thursday, Nov. 14, 2013

6:30 - 7:00 p.m. Reception

7:00 - 7:30 p.m. Talk

7:30 - 8:00 p.m. Q&A

You can register for the program online:

<https://www.regonline.com/builder/site/Default.aspx?EventID=1300159>

or you can relax in your own home/shop/library to view a streaming session at:

<http://new.livestream.com/argonneline>

I'll keep you updated

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Energy Transition

<http://www.fveaa.org/blogs/richcarroll/2013/11/energy-transition/>

Posted on November 6, 2013 by Rich Carroll

Are you interested in energy transition? A new, online DVD video is available from Switch Energy which seems to present this in a fairly unbiased way. You can stream the DVD, or if you are a teacher, you can get the DVD.

<http://www.switchenergyproject.com/index.php>

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Toyota is Developing a new Fuel Cell Car

Posted on November 6, 2013 by Rich Carroll

One of the interesting sites for updates on electric vehicles that we don't normally consider is the German site Spiegel.de. In this article, they discuss an upcoming vehicle from Toyota that should give a 375 mile range, done by recharging with a hydrogen fuel cell to make the electric power for the car. Toyota's aim is to be price competitive with other electric cars. See:

<http://www.fveaa.org/blogs/richcarroll/2013/11/toyota-is-developing-a-new-fuel-cell-car/>

Pictures

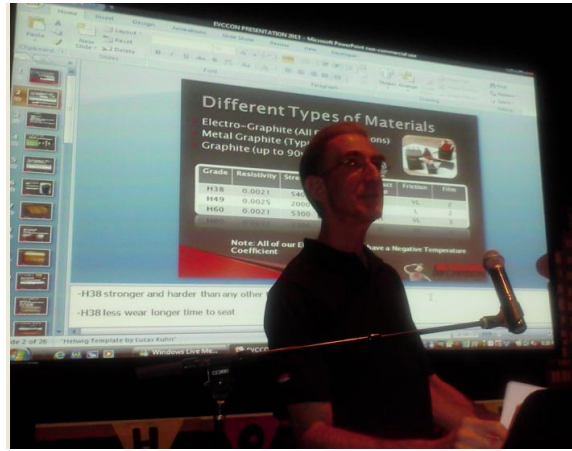
Dio Vesselinov and Bruce Jones



Deb Seymour sings "Little Zenn Car"



and has the rapt attention of the audience!



Tom Brunka of Helwig, goes in depth on motor brushes



Meeting Minutes

Grant Gerke

President Bruce Jones opened the meeting at 7:00 p.m. and attendees introduced themselves. Bruce provided sales figures for EVs to date in 2013 and he brought up the idea of a logo redesign for the chapter. A new logo is needed and is open to further debate, with no definite date set for moving forward. Jim Schmidt reminded everyone about a Lithium forecast webinar on Nov. 5th via Navigant Research. Bruce reminded everyone should pay their membership dues. Todd Dore was not in attendance (get better Todd), but we have quite a bit of money. Rich Hirschberg was not in attendance, no news on the outreach front. Bruce mentioned the club's involvement in the charging station efforts in Elgin (led by Todd Martin) and provided

a general rule of thumb on our contribution:

- FVEAA will pay ½ the cost of the unit.
- We insist the charger be placed in a parking space open FREE to the public.
- We insist the charger be free to use.
- And, the charger must be installed in the Chicago metro area

Bruce also reiterated the new term for electric transport, Plug-In Electric Transportation (PET) and showed more examples of PETs including electric unicycle, and pickup trucks, along with some novel charging station designs.

Rich Carroll has a blog post on electric snowmobiles, see www.fveaa.org.

Deb Seymour From Seattle Electric Vehicle Association

Our first guest was Deb Seymour from the Seattle Electric Vehicle Association and she is a proud owner of a 2008 Zenn electric vehicle. She sang and played a rockin' tune "Little Zenn Car"

<http://www.youtube.com/watch?v=byPFCLc0w-w>

and provided an overview of the Seattle chapter that has been around since 1979 and has almost 300 members, with 88 electric cars in the club. She talked about the adopt-a-charger program

(<http://www.westcoastgreenhighway.com>), kicking in money for level III chargers and push by the club to get HOV lanes in the Seattle area. Great person and it was great to meet her.

Short Break to talk and see the electric cars

Tom Brunka - EV Motor Brush Improvements

Helwig's Tom Brunka finished the evening with a report on EV motor brush improvements and a brief discussion on Battery Management Systems for LI-ion batteries. Tom's discussion touched upon brush grades, resistance, shunt wire size, current density (H38 & H60), commutator grooving, photographing. The presentation led to a brief presentation on how a BMS is not needed for small battery packs (There's a discussion that he may be back for November's meeting) For more information on Tom Brunka or Helwig, visit <http://www.helwigcarbon.com/>.

Membership Form

Ted Lowe

FVEAA Membership Application Form

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 ? _____

Member Types and Annual Dues

(Please circle one)

Newsletter Delivery Types

(Please circle one)

Individual	\$15	No Newsletter	\$0
Family	\$20	Electronic Only	\$0

Business	\$100	Postal Mailed	\$15
Premier Business	\$250	Postal Mailed and Electronic	\$15
Charter Business	\$500		

Total Due from Both Columns:

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

 <p>Exclusive worldwide distributor of WarPTM, ImPulseTM, and TransWarPTM electric motors for use in electric vehicles and electric vehicle conversions.</p> <p>800 S State St. Suite 4 WWW.GO-EV.COM Lockport, IL 60441 630.243.9100</p>	 <p>Bob's Hillview Auto Bob Baker 4c Hillview Dr Lake Barrington, IL 60010 Work: 847-842-9543 Email: bobshillviewauto@gmail.com Web: www.bobshillviewauto.com</p>
 <p>Harris Precision Tools Robert Harris 10081 Anderson Ave Chicago Ridge, IL 60415 Phone: 708-422-5808 Email: harrisprecision@comcast.net</p>	