

**Fox Valley Electric Auto Association**  
PO Box 214  
Wheaton, IL 60187

**Meeting: Friday, June 20th, 2008**

Doors open at 6:30PM, **Meeting starts at 7:00PM**

Packer Engineering

1976 N Washington St, Naperville, IL 60563

Directions: Packer Engineering is the on East side of Washington St, just North of the I-88 Tollway (North of Diehl, South of Warrenville Rd). Turn off of Washington onto Bighorn at the Packer Engineering sign, then take the first right into Packer Engineering and then an immediate left. Park in the lot between the buildings. 1976 is the new building up the hill. Enter the building in the middle of the North side.

**June 2008 Newsletter**



**Fox Valley Electric Auto Association**

A Not-For-Profit Illinois corporation and the Chicago area chapter of the Electric Auto Association

**Meeting Agenda**

Call to Order and Introductions

Approval of Minutes

Treasurer's Report

**Old Business**

- Online Store - Final chance to order for delivery by July meeting. Should FVEAA stock some Shirts ?
- Ed Meyer's donation to the FVEAA
- Committee Announcements and Updates
  - Outreach - Rich Hirschberg
  - Charging Infrastructure - Todd Martin
  - Legislative Affairs - Todd Dore

**New Business**

- Todd Dore discussion of PHEV All Around America (PHEV3A)
- Helping Members Sell and Buy EVs - Formalizing and automating the process?
- Summer Outreach Events - Which car shows to attend?
- Anyone have anything else?

**Intermission** - Networking, Refreshments, Raffle Tickets!

Raffle Winners

## Extended Show, Tell and Ask

## Extended Ride & Drive

### President's Words - \$4+/gallon, \$140/barrel, \$8/bushel

*Ted Lowe*



In less than two short years, oil and gasoline have doubled in price! Corn has gone up four-fold! A number of years ago, i was shopping for a fireplace insert for my house so i could zone-heat my living room. I remember considering a corn stove, but i thought that even though corn was cost effective (at the time) compared to natural gas, i don't have easy access to corn (like natural gas); It was just another commodity whose price and availability is determined by the markets. In retrospect, i'm very glad i decided to get a wood insert instead of corn (or wood pellets), because so far anyway, the cost of wood to me is free (my labor only) since my fellow DuPageans regularly dispose of such 'waste' as part of their landscaping processes. Also, once the word got out that i'm a wood user, friends and neighbors offer me first shot at their's. Heck, a couple of

friends have Even dropped the wood off at my house (thanks Dave and Laurel:-)!

What does this all have to do with EVs you ask ? Well, zone-heating (whether it is with wood, veggie oil, natural gas, corn, etc.) is a much more efficient way to heat than the conventional approach (ie, heating EVery square-foot of the house). EVs are similarly efficient!!! Let me know what i can do to help you to drive electric (or make solar power :-)!

### Minutes from May 16, 2008 FVEAA Meeting

*Ted Lowe*

Due to the extended delay getting access to our meeting place, we didn't hold the business portion of the meeting. We extend our gratitude to Dr. Ken Packer whom drove in from home to let us into the building! Members and guests (about 80 in total) enjoyed the nice weather and viewed EVs in the East lot prior to the meeting start (approx. 8pm). Ed Meyer held a Q&A session on his EV prior to the auction. Steven Grushas was the auctioneer for the lively auction, and Ed's EV sold for \$3000 (see article below). Jim Dawson gave an excellent talk on A/C systems and Miodrag gave an excellent talk on controller design. We adjourned about 10:20 PM.

### Note FVEAA's New Zip Code

*Ted Lowe*

For those of you using postal mail to contact us, our zip code has changed from 60189-0214 to **60187-0214**.

### Ed Meyer's Sebring-Vanguard EV sells for \$3000!

*Ted Lowe*

Congratulations to FVEAAer Mark Rider of Wauwatosa, WI who won the auction for Ed's EV! Mark will have many EV grins (not buying \$4/gal gasoline, etc.)! Our deepest thanks go out to Ed Meyer for helping the FVEAA raise funds that will be put to very good uses! Thanks go out to auctioneer Steven Grushas for creating excitement in the auction. Thanks go out to Pioneer Conversions for lending us their trailer to get Ed's EV to the meeting. SPECIAL THANKS go out to new FVEAAer Paul Sund for donating his time and vehicle to tow Ed's EV to the meeting AND for letting Mark borrow his vehicle to tow his new ride all the way back home to WI! THANKS Paul!!!



### **Naperville Considering Adding EV To Their Fleet**

*Ted Lowe*

This week I met with people from Naperville's Electric Dept. to show them my EV and answer EV questions they had. It was a large and enthusiastic group of people for sure! The EV could be a good vehicle to have in a municipality's fleet, since some of their vehicles make many short trips each day, easily accomplished with the EV without any gasoline or local pollution. Another added benefit of EVs is that we can generate electricity in a number of different ways like solar, wind, hydro and nuclear. It is much more difficult to generate 'oil'.

### **Online EV Charging Locations Listing**

*Ted Lowe*

As the number of charging locations grows (**THANKS TODD!**), so does the need to document where they all are so that FVEAAers, other EVerS and the public can see where they are (to use them and for curiosity sakes). I had hoped to have more copious free time between the May and June meetings to put this together but unfortunately i have some paying work lately :-). Look for this website feature soon and let me know if you'd like to help out in this effort, thanks!

### **Newest FVEAA Sponsor - Rick Sbragia, Star Motors**

*Ted Lowe*

Join me in welcoming Rick Sbragia and Star Motors as a new FVEAA Sponsor! We just missed this newsletter's publishing date, so look for his detailed introduction and ad next month!

### **Support Our Sponsors That Support Us!**

*Ted Lowe*

Visit our Sponsors page to view their information: <http://www.fveaa.org/sponsors>

Pay their support forward by visiting their websites and seeing what services and products they offer!

Everyone please ramp up your recruiting efforts for new business memberships and if your business would

like to support FVEAA's mission, we'd gratefully appreciate your support!! See more information at: <http://www.fveaa.org/join>

**Final Final Chance To Order FVEAA Stuff**

*Ted Lowe*

Many more members have placed orders for FVEAA merchandise since the last meeting, so we're ready to place bulk orders (to reduce shipping costs). I will be placing the orders on Weds. June 25th so we will have the items in time for the July meeting. So if you want be part of this round of ordering, visit our online store at <http://www.fveaa.org/store> by June 23rd to place your orders for FVEAA Shirts and Business Cards. Please let me know if you have questions/suggestions/comments.

**FVEAA's Charter Business Member**

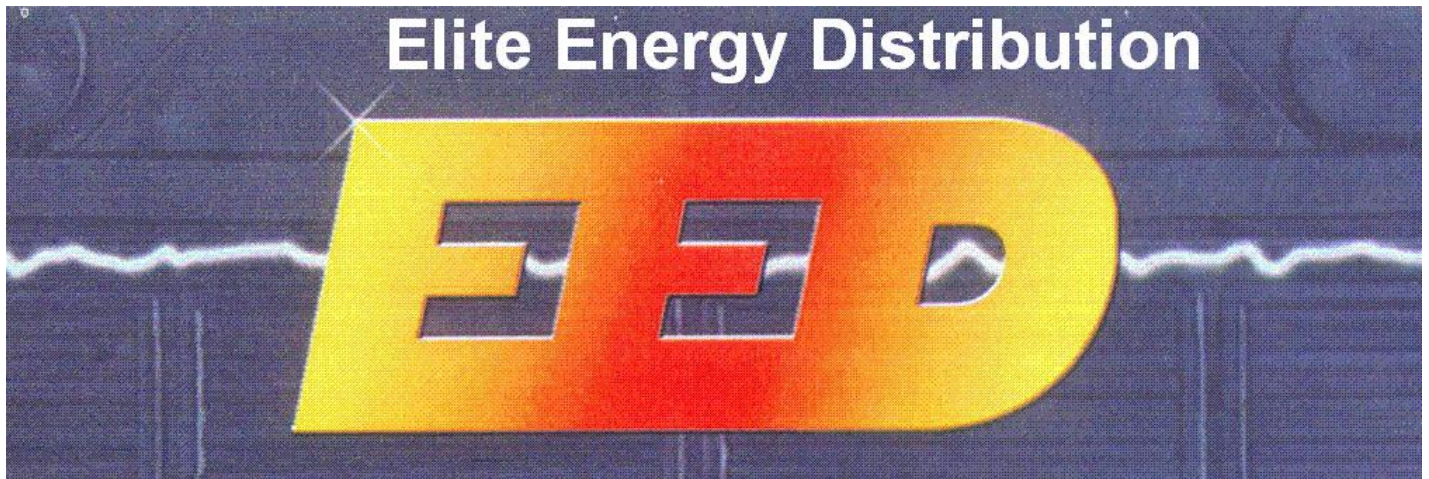
*Ted Lowe*

**Elite Energy Distribution**

Dave Strange, President Of Operations  
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We can take for recycling any and all rechargeable batteries (NiCd, NiMH, and LION). During a time when metal prices are sky-rocketing, our prices stay competitive with extended warranties.



**Event Report - Milledgeville, IL Cruise Night**

*Craig Dusing*

Here's a couple of pics from the first Milledgeville Cruise Night I attended last night. Greg Coleman had his electric Yugo there too. We had a blast showing the vehicles at this small local event and talking about conversions. Tons of interest and questions from other attendees and the public. Wish I wasn't so far out in the stix so I could get to more events. People are genuinely interested in learning more about EVs.





**FVEAA's Premier Business Member**

*Ted Lowe*



**eco-conversions**

**Eco-conversions**

Kenneth Adomaitis  
6140 Riverbend Dr  
Lisle, IL 60532  
Phone: 312-924-3442  
Email: [info@eco-conversions.com](mailto:info@eco-conversions.com)  
Web: [www.eco-conversions.com](http://www.eco-conversions.com)

Eco-conversions specializes in converting oil dependent vehicles to electric. Focusing specifically on luxury vehicles, our goal is to shatter the image of the traditional electric car.

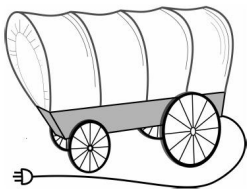
Even though all high-end, luxury and luxury sports car conversions are acceptable, our benchmark vehicle is the BMW 8-Series. It is the perfect marriage of style, luxury and performance. At eco-conversions we work hard to show that it is possible to create another choice for the environmentally conscience consumer. By using environmentally friendly nickel-zinc batteries, we provide enough power to maintain both the feel and performance of a luxury sports car. Each charge provides 100+ miles of drive time. No gas required. Zero emissions. The end result is a luxury vehicle that you can feel good about driving.

Eco-conversions has partnered with eVionyx, an American company that has developed nickel-zinc rechargeable batteries which can handle over 2000 cycles at 90% DoD. The eVionyx nickel-zinc battery has superior performance as compared to other battery technologies available today. The nickel-zinc cells are superior to lead acid in total power and energy, specific power and energy, and recharge time. It is less expensive and also performs better than NiMH cells. NiZn batteries are particularly suited to high-power applications, such as use in electric vehicles and light transportation.

**FVEAA's Business Members**

*Ted Lowe*

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## Petroleum Energy Density vs. Battery Energy Density

*Ted Lowe*

The picture below is from the front cover of the excellent magazine **Design News**. They had an excellent idea with the graphic depicting the wide difference in energy density (Watt-Hours/kiloGram) between petroleum and batteries.



From left to right, Lead-Acid has 50 W-hr/kg, Lithium has 3 times that but gasoline has almost two magnitudes more energy density than Lithium! Note that this picture is good but actually grossly out of scale (because without using a logarithmic scale, the gasoline drums wouldn't fit on the page). This is an interesting issue to ponder and consider that this is the greatest challenge that we EVer's take on to run on electric power! Just imagine what the EVs of the future will be like as humanity continues to discover techniques to store more electric power in smaller and lighter packages!

**\*EVs In The News**

*Ted Lowe*

### **Honda FCX Clarity Fuel Cell Leased To A Handful In S. CA**

The FCX Clarity is an EV! In this case, the electricity is created via a hydrogen fuel-cell. It will be interesting to see the hydrogen fuel-cell technology and markets develop in the future. Read more at: <http://world.honda.com/news/2008/4080616First-FCX-Clarity/>

## Toyota PHEV With Lithium Batteries by 2010

Can Toyota become an Even greener car company? No doubt that a lithium powered PHEV will work great, but i wonder what the price tag of this beauty will be? Read more at: <http://www.freep.com/apps/pbcs.dll/article?AID=/20080611/BUSINESS01/80611032/1014>

## Volt Watch: Lithium Battery Version Working Well

In their ongoing effort to develop the Chevy Volt by 2010, GM is doing a very good job at releasing "status reports" on their progress. i'm so excited... i can't decide which future car to buy when i win the lottery in 2010! Read more at: <http://www.autobloggreen.com/2008/04/24/lutz-talks-ev1-and-volt-with-the-detroit-news-first-lithium-vol/>

### Welcome New FVEAAers

*Ted Lowe*

Let's give a big FVEAA welcome to the following new members:

John Cunningham from Cary, IL  
Joe Grzesik from Palos Hills, IL  
Nathan Stowe from Brookfield, IL  
Sean Sheldon from Ottawa, IL  
Oscar Marx from Inverness, IL  
Steve Rollins from Wheaton, IL  
Warren Kronberger from Minooka, IL  
Loren Pollock from Highland Park, IL  
Joe Vineyard from Kahoka, MO!

Pat Mitchell from Rockford, IL  
Mark Bosacki from Algonquin, IL  
Larry Houle from ???  
Dwight Dixon from Yorkville, IL  
Karl Bestler from Wheaton, IL  
Alan Luchene from Peotone, IL  
Lawrence Miller from Vernon Hills, IL  
Martin Firmand from Peoria, IL  
Rick Sbragia from Elmhurst, IL

Welcome aboard Folks! Let us know what we can do to help you in your EV pursuits!

### FVEAA Membership Report

*Ted Lowe*

**New members since last month: 18!**

**Recruiting goal for 2008:** Let's have 250 FVEAA members by the end of the year, 20 of which are business members!





## FVEAA Membership Report

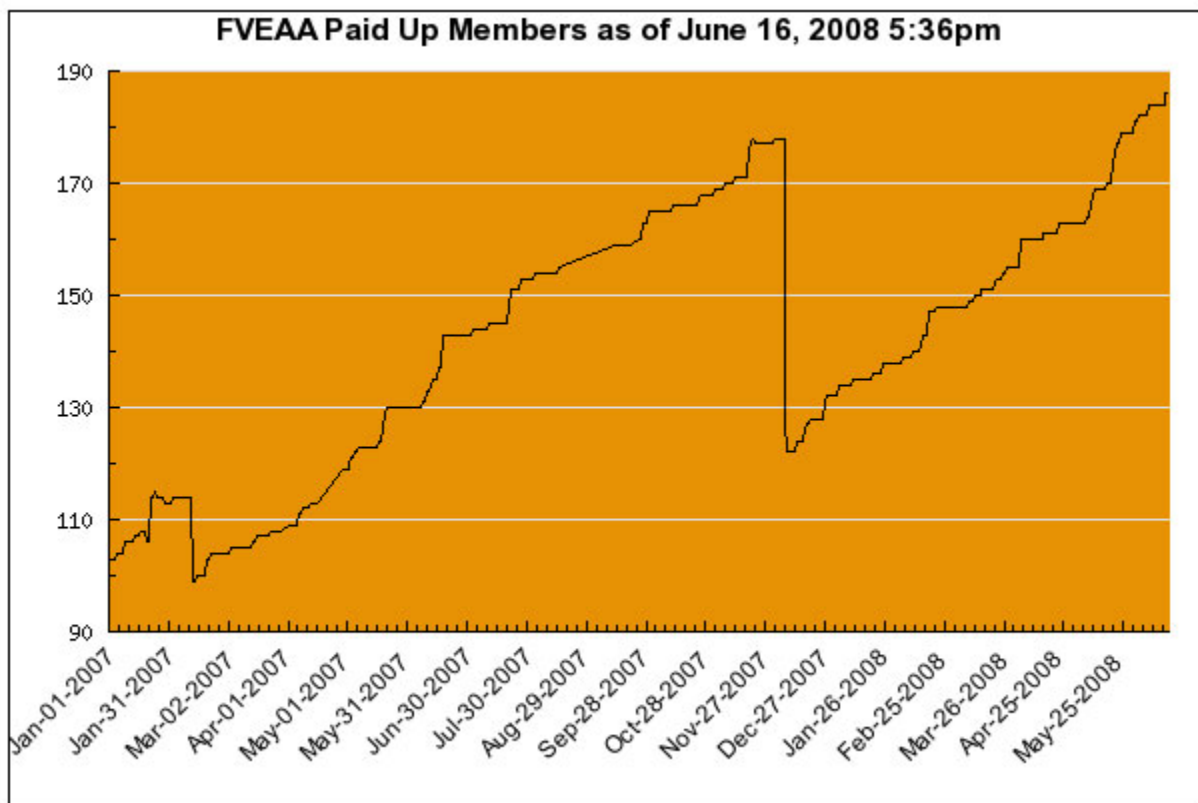
as of 2008-06-16 04:58:12

### Count of Members by Type

Membership Type	Count	Paid Up
BusinessCharter	1	1
BusinessPremier	1	1
BusinessStd	4	4
Family	21	21
Individual	156	156
LifetimeInd	3	3
Totals	186	186

### Other Statistics

Statistic	Value
% Paid Up	100.0%
Avg. Paid Up Days	196.3 days
% With Email	91.9%



It's amazing the difference 1.5 years and \$4/gallon gasoline makes!

### EVs Becoming Well Known

Ted Lowe

Here are some results from a recent **CNN Money** online poll:

### 1. To become less dependent on fuel, I'd be most inclined to...

Grow my own food	11%	■
Install solar panels	27%	■
Buy an electric car	44%	■
None of the above	17%	■

Total responses to this question: 58395

This speaks well for the future of the EV!

#### What's Your Fuel ?

*Ted Lowe*

A mere month later than this graph shows, oil has traded near \$140/barrel!



This speaks well for the future of the EV!

#### Coming Attractions for Next Meeting

*Ted Lowe*

Perhaps a well publicized Public Open House with an Extended Ride and Drive, Pizza, mini-EV Seminars, etc. What thinketh y'all???