

**Fox Valley Electric Auto Association**  
PO Box 214  
Wheaton, IL 60189-0214

***Meeting: Friday, June 15th***

**Doors open at 7:00PM**

**Meeting starts at 7:30PM**

**Clow International Airport**

**130 S Clow Intl. Pkwy, Bolingbrook, IL 60440**

Directions: From the Boughton & Weber Rd intersection, go south 0.5mi (past all the malls) and turn right (west) on Clow Intl. Pkwy. **Park in the lot next to Charlie's Restaurant.** The meeting is in the Packer Wings hangar (second hangar north from the parking lot). Enter the hangar from the side door on the south side.

**June  
2007**

**FVEAA NEWSLETTER**

**Fox Valley Electric Auto Association**

A Not-For-Profit IL Corporation & Chapter of the Electric Auto Association (eaaev.org)



**Meeting Agenda**

*Ted Lowe*

**Call to Order and Introductions** – Ted Lowe and Attendees

**Approval of Minutes** – Rich Carroll

**Treasurer's Report** – Dale Corel

**Old Business**

- New Meeting Location! – Ted Lowe
- Charging Infrastructure Update – Todd Martin
- Midwest AFV Expo Update – Rich Hirschberg
- Club Car Project 2007 Update – Ted Lowe & Tim Moore

**New Business**

- Got some anyone ?

**Show/Tell/Ask** – Anyone can show, tell, and/or ask something for 1-2 minutes.

- Ted Lowe – Homebrew LED dome light - 1/30<sup>th</sup> of power & better light
- Others ?

## Intermission - Networking, Refreshments and Raffle

### Programs

#### **Ryan Brandys - Emerging Lithium Battery Technology Calculations**

Ryan will talk about his recent survey of Lithium battery technologies and a system he has developed to calculate the designs of custom battery packs from such emerging battery technologies.

#### **Chuck Carrington- Biofuels**

Chuck will talk about his experiences driving a biofuel vehicle and the issues involved.

### President's Words

*Ted Lowe*



Time marches on. It's hard to believe that it's June already! We FVEAAers have many interesting activities for this summer: 1) Club Car 2007 Project, 2) the 2007 Midwest AFV Expo, and 3) other public outreach Events. Read more about these activities below and make sure you mark your calendars and get involved to help out and learn more in the process!

### Meeting Minutes

*Rich Carroll*

Meeting May 18, 2007 - at Clow International Airport

Call to order: 8:05. Attendance Sheet was passed around.

Ted Lowe introduced himself. We started with intros of people present. Each told where they were from and their EV interest. A record number of 78 people were present (and 85 by the end of the meeting)!

The minutes were approved as printed with a note about correcting the August 11 and 12 dates.

The Treasurer's Report was presented by Dale Corel. This showed a checking balance of \$1047.90 and a savings balance of \$5326.56.

Ed Meyer introduced Dr. Packer of the Packer Wings organization. Dr. Packer briefly discussed the Packer Wings new project of attempting to win the \$2 million prize for being the first group to produce an electric powered airplane capable of carrying a person in a one mile flight. Packer Wings is an excellent group that raises money for their widespread philanthropic activities.

Upcoming Events included the May 19 event in Oswego, the May 19 event in Lockport, and the WKTEC showing at the Elgin Library on 6/28.

Midwest Alternative Fuel Expo brochures were handed out to new people.

A short discussion was held on a new meeting site, but nothing was certain at that time.

Avcon charging stations have been installed in Aurora in the Illinois 25 Commuter parking lot, and an inquiry has come from the Elgin library. It was noted that these would require a 40 amp 220 supply, and an installation by licensed electricians.

We are working on a possible new meeting location, hoping to find something more centrally located. Lewis University has offered us their large meeting room, a 300 person theater on Route 53 in Romeoville.

Rich H. again reminded all of the Midwest Alternative Fuel Vehicle Expo in August, which is part of the Illinois Renewable Energy Fair. This will be at the Ogle County Fairgrounds and will feature hybrid guru Chris Schneider, and seminars on biodiesel. A fuel cell car from IIT is scheduled to be there.

It was mentioned that Ray DeBoth's son has ordered a Tesla

After some discussion, Honorary Membership would not be offered at this time. However, there was discussion about Business memberships, which would be offered at \$100, \$250 and \$500. We initially thought we would approach Zap!, Pioneer, and Excelon. This money is not yet tax deductible.

Raffle took place netting \$52. (last month was \$22) We raffled off one issue of "Solar Today" and several seperate bumper stickers.

Three speakers made presentations after the break.

First we showed a short program on the making of the "Little Juice Coupe" segment aired on WGN as John Jeide took the first drive in his newly converted EV.

Todd Dore shared several experiences with his plug in hybrid, including graphs of his data. Todd certainly keeps accurate data for his conversion, and is able to present it in an understandable manner.

John Emde finished the discussion with a talk on electric motors, types, and availability.

The meeting was adjourned at 11:31

Newsletter Editor
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<i>Rich Carroll</i>
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Guilty as charged. I have been accused of delaying the decision of a battery purchase for my EV, an Elcar, awaiting a decision on (fill in the blank). I have

used the desire to go to AGM batteries for a while in delaying my decision, as I will need some battery management to keep the AGM batteries balanced. Ah, if Ed Meyer had his charger, I could not worry about separate regulators, and accomplish the balancing with the charging system. But Ed's system always seems a few months off. Another club member has offered me his old batteries, but they are of uncertain age, and ... well, you know the story. Again I procrastinate. This time, I guess I need to make the decision, and likely I will put the older set of lead acids in the little Elcar, and see what they yield for speed and range.

I think we all realize that significant new technology is just around the corner, but perhaps that "just around the corner" is not within a few months. We'd all like to be on the leading edge of technology, but sometimes delaying until the latest developments arrive is a never ending wait. So, like me, make a decision to go with a technology that works, and upgrade after newer stuff arrives. Don't delay until the latest and greatest arrives, as it will continue to promise more, and more, and more...

### New Meeting Location Starting In July!

*Ted Lowe*

I am happy to announce that we have found a new meeting location! Dr. Ken Packer, the founder of Packer Engineering (and good friend and colleague of long time FVEAAer Ed Meyer) has graciously offered us space in his new building in Naperville. I want to personally thank Ed Meyer and Packer Wings for all their hospitality since we've been meeting at the Clow Airport location since early 2006!

The new location isn't ideal from a geographical point of view (still quite west for Chicagoans), but better than Clow because it is 9 miles north and right off of I-88. Also, the building has the amenities of a good meeting place like plenty of space, heat, bathrooms, kitchenette and has a garage where we can pull in EVs to charge and demonstrate.

They are still constructing the inside of the new building, so we be meeting in a large open area where we will set up chairs. IT'S IMPORTANT that we respect our new meeting place and don't wander around beyond the meeting area. Please help spread the word about our new meeting location!

**BEGINNING WITH THE JULY 2007 MEETING**, our new location will be:

Packer Engineering  
1976 N Washington  
Naperville, IL

Directions: After turning off of Washington on Bighorn, Packer Engineering is on the right. The first building is 1950 and the new building to the east is 1976. Enter the building via north side door in the middle of the building. Turn right immediately after entering the building to the meeting space.



## Club Car 2007 Kickoff Session – Tuesday June 19th!

*Ted Lowe*

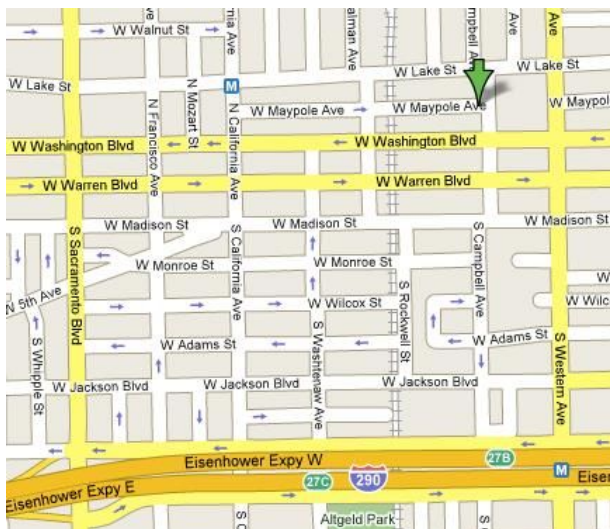
Come one, come all to our kickoff session for our 2007 Club Car project! The kickoff session will be one of many sessions schedule throughout the summer where we'll do **a complete EV conversion from beginning to end!**

The goals of this kickoff session are as follows: 1) acquaint ourselves with the people, garage location and car, 2) make and record the “before” measurements, 3) mark wires, and 4) maybe start some disassembly, etc.

The kickoff session will be at Eric Schoonveld's garage:

Tuesday, June 19<sup>th</sup>, 2007 – 6:30PM – 9PM  
2511 W Maypole Ave, Chicago

The nearest big intersection is Lake St and Western Ave.



There will be many opportunities to learn and to help, so come on out!

**Events - Mark Your Calendars – Get Involved**

*Ted Lowe*

**Public Screening of WKtEC Film and “Not Dead Yet!” EV Players**

Thursday, June 28<sup>th</sup> , 2007 – 6:30-9PM

Elgin Public Library

270 N Grove Ave

Elgin, IL 60120

For more information, contact Rich Hirschberg [goafvs@yahoo.com](mailto:goafvs@yahoo.com)

**Midwest Alternative Fuel Vehicle Expo 2007**

August 11-12, 2007

Oregon, Illinois

For more information, contact Rich Hirschberg, [goafvs@yahoo.com](mailto:goafvs@yahoo.com)  
and [www.midwestafvexpo.com](http://www.midwestafvexpo.com)

**EV Resources**

*A resource*

**EV Discussion List**

Are you looking for technical help on an EV project? If so, tap into an incredible resource on the Internet, the EVDL! This is a mailing list of EV experts and enthusiasts from all the world that pose questions and share answers on EV technical issues. It is a very active list, so setup an email filter to sort your email to a separate mailbox. More info at:

[www.madkatz.com/ev/evlist.html](http://www.madkatz.com/ev/evlist.html)

**EV Album - [www.evalbum.com](http://www.evalbum.com)**

This excellent website shows pictures and detailed descriptions of over 1100+ EVs of all types and sizes! Use it to learn about who is converting what, how and where. You can contact the owners to ask questions if the EV you're building is similar to theirs. And it's just plain fun to see all the "contraptions" that people convert to electric!

Welcome New FVEAAers

*Ted Lowe*

Join me in extending a warm welcome to new FVEAAers:

Eric Schoonveld - Chicago  
David Leban - Batavia  
Ken Adomaitis - Lisle  
Jonathan Eisele - Park Forest  
Chris Ewert - Carol Stream  
Robert Baker - Libertyville

Richard Barnes - Gary  
Kenneth Berglund - Chicago  
David Attig - Wenona  
Wayne McGuire - River Forest  
Joe Sykes - Wheeling

Welcome aboard, folks! We hope to see you at meetings and other EV events! Let us know if we can be of help in your EV pursuits!

EV's in the News

*Rich Carroll*

The Alliance for Automobile Manufacturers, an industry group comprised of many of the large car makers, are objecting to the newly proposed CAFE standards. The Alliance of Automobile Manufacturers is a trade association of 9 car and light truck manufacturers including BMW Group, DaimlerChrysler, Ford Motor Company, General Motors, Mazda, Mitsubishi Motors, Porsche, Toyota and Volkswagen. These new proposed standards are a hot topic in Washington lately, but the Alliance is launching newspaper ads (full page) and broadcast spots on Radio to encourage voters to tell their representatives not to pass this legislation. CAFE (Corporate Average Fuel Economy) standards have not been moved in many years, but the Alliance feels that they should not be moved now.

Toyota has announced a dramatic increase in the number of Priuses sold in May 2007 tripling the prior number. That's a 196% increase. Comparing similar numbers showed the Camry up 16% and the Honda's Civic line up 53%. When Toyota testified at the California ARB meetings in San Diego, they said the Prius is now outselling the Camry in Washington state.

General Motors has announced that has awarded two contracts to companies that will make the lithium-ion batteries it needs for its "E-Flex" hybrid drivetrain to enter production. The "E-Flex" powertrain announced by GM uses batteries for propulsion, and has several versions to regenerate power for the batteries.

Currently discussed are small gasoline engines, small diesel engines, or hydrogen powered fuel cell versions. This new powertrain was premiered at the Chicago Auto Show in the concept car the Chevy Volt. While the choice of powertrain(s) seems to be as yet undecided, Chevy appears to be preceeding with the EV concept in contracting these two companies to provide needed batteries. The companies are Compact Power, Inc and Continental Automotive Systems. Compact Power is a part of LG Chem. GM appears to be pursuing the Lithium-ion front, although some of the recent shipments from the far east have demonstrated reliability concerns if the battery packs are not high quality.

Likely the most telling quote is from GM Chariman Rich Wagoner, who said, "Given the huge potential that the Volt and its E-Flex system offers to lower oil consumption, lower oil imports, and reduce carbon emissions, this is a top priority program for GM."

### Cool Globes Now On Display

*Ted Lowe*

To fill space and since i worked on this project, check out the Cool Globes along the Chicago lakefront from now until September. Read more at: [www.coolglobes.com](http://www.coolglobes.com)

