

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

Meeting: Friday, May 16th, 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.

May 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 - Get your orders in EVeryone!!! Will place orders Monday. Should FVEAA stock some Shirts ?
- Update on Ed Meyer's Vanguard EV Auction (see article)
- Committee Announcements and Updates
 - Outreach - Rich Hirschberg
 - Charging Infrastructure - Todd Martin
 - Technical Projects - Ken Simmermon
 - Legislative Affairs - Todd Dore

New Business

- Helping Members Sell and Buy EVs - Formalizing and automating the process.
- Extending Online Store to include 'borrowables', 'rentables', and services (pro-bono and for hire)
- Summer Outreach EEvents - Which car shows to attend?
- June meeting format ? No programs, instead break out groups and extended ride and drive. Publicize opportunities.

- Anyone have anything else ?

Intermission - Inspection and auction of Ed Meyer's Vanguard EV! Networking, Refreshments, Raffle Tickets!

Raffle Winners

Program

Jim Dawson - Air Conditioning Principles and Use in EVs

Jim will speak on how automotive A/C systems work and the special considerations involved in using A/C in EVs.

Miodrag Zubic - Controller Design Overview

Miodrag will speak on how motor controllers work and the basics of how they are designed and implemented.

President's Words - Just missed my \$4/gallon estimate :-) *Ted Lowe*



Ok, it's officially mid-Spring and gasoline hasn't reached \$4/gallon (in IL anyway:-). So my prediction of \$4/gal by early-Spring fell short by about a quarter. Close but no chocolate cigar! With the average price of gasoline and the price of oil hitting new highs just about EVERY other day, we'll hit \$4 before long. i've read some forecasts for EVEN \$5/gal! Although i do feel compassion for my fellow fossil-fuel powered humans, i have to admit that my EV grin gets a bit wider with each new price record. Is it bad to feel better? i know i'm gloating, but i'm no magician... just an ordinary guy that DECIDED and TOOK ACTION like many EV-driving FVEAAs (past and present). Join me and other FVEAAs... EV Grins are



aplenty!

SO..... what can the FVEAA do to help you "Free Yourself From The Pump" (or become less dependent on gasoline anyway) ? 1/2 of FVEAA's mission is to help you FVEAAs to become EV owners and drivers! Help us execute our mission; Just ask and we'll help!!!

Minutes from April 18, 2008 FVEAA Meeting *Rich Carroll*

The April Meeting of the FVEAA was called to order at 7:06 P.M. by Ted Lowe. Due to the large number of visitors, Ted asked for those who had traveled more than 40 miles to the meeting to introduce themselves. (Lots of folks introduced themselves.) It was moved and seconded to accept the minutes of the prior meeting. Passed. **Old Business** Ted introduced the online store for the FVEAA. Business cards and shirts are the first items available. Ted mentioned that the Ed Meyer donation of his Vanguard had been postponed due to some vandal damage. In as much as the vehicle has minor damage, the vehicle minimum bid will be lowered to \$750. The Vanguard has a new 48 volt controller. Outreach Committee report was presented by Rich Hirschberg. Rich discussed several upcoming car shows and several special Earth Day celebrations. The IT committee mentioned that the forums are now open for reading, but only members may post. Please note that any forum starting with the word "FVEAA" is a private forum, and not available for reading by the general public. **Programs/Intermission** George Gladic discussed the Plug In Hybrid he just finished converting, a Prius. The parts were supplied by <http://www.pluginsupply.com>. He and Chris Everett showed both Prius conversions, and the two had slightly different systems, but both are claimed to enhance the mileage to over 100 MPG. Both cars had a CAN-view monitor (from hybridinterfaces.ca) added for additional information display. Current conversions use lead acid batteries, a Lithium Ion Phosphate system is to be available next year. These cars had been recently finished and a full report will be done when a long term test is available. Ted Lowe gave a short presentation on "Information is Power" demonstrating the Hall Effect sensor and the Bitscope electronic oscilloscope tool (www.bitscope.com). We adjourned at 9:54 P.M.

Ed Meyer's Sebring-Vanguard EV Auction @ This Month's Meeting!!!

Ted Lowe

We will be auctioning Ed's Sebring-Vanguard EV at our May meeting! The EV will be at Packer Engineering for the auction so interested parties may inspect it. Ed plans to attend to answer any questions that you may have. Starting price will be \$750. Disclaimer: *The EV will be sold as-is without any warranty express or implied.* BUT the beauty of being an FVEAAer is that the lucky buyer will have all of us to offer owning and operating advice and help! Come one, come all! **THANKS** Ed!



Northbrook installs Avcon!

Todd Martin

Great news, the Village of Northbrook has just installed an Avcon Charging Station behind their Village Hall. More details coming soon!

Effort begins to document growing list of EV Charging Locations

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). So by the time of the June meeting, i will work with Todd to deploy web-based reference tool that will show details of each charging location (address, directions, public/private, hours of operation, emergency only, voltage, connection type, notes, etc.) We will borrow from existing efforts like <http://www.evchargernews.com> but probably also "snaze" it up a bit with interactive maps too. Please email us (or post them on the forum) your ideas regarding this effort. For example:

Charging Location: Beverly Unitarian Church 10244 S Longwood Dr Chicago, IL 60643	Type: Avcon 220V
Regional Map:	Detailed Aerial Map:



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>

FVEAA Online Store Open To Order FVEAA Shirts and Business Cards - ORDER ASAP! *Ted Lowe*

Only one person has shopped at the FVEAA's new Online Store since it's introduction last month! You can shop in our store to order FVEAA Shirts and Business Cards. Once enough orders have been placed, i will order the items and bring them to the next FVEAA meeting for distribution. To keep things simple for now, this is how it works:

1. Login to fveaa.org to gain access to the FVEAA Online Store (see top left of home page).
2. Click on 'List All Products' to see all items available.
3. Visit each product's details and decide what to order.
4. Order items by adding them to your cart.
5. When finished shopping, Show your Cart and click on Checkout
6. The first time you Checkout, you will be prompted for your Name, Address, etc.
7. Double check your order on the final Checkout page and Confirm your Order.
8. You will get an email confirmation of your order as well being able to check your order history online.
9. **All orders must be ordered online and paid for and picked up at subsequent FVEAA meetings!**

If all things go well, we can add expand this program to include more items, online payments, drop shipping (in some cases) and possibly maintaining some inventory to expedite deliveries. Check it out at: <http://www.fveaa.org/store> ! Please let me know if you have questions/suggestions/comments.

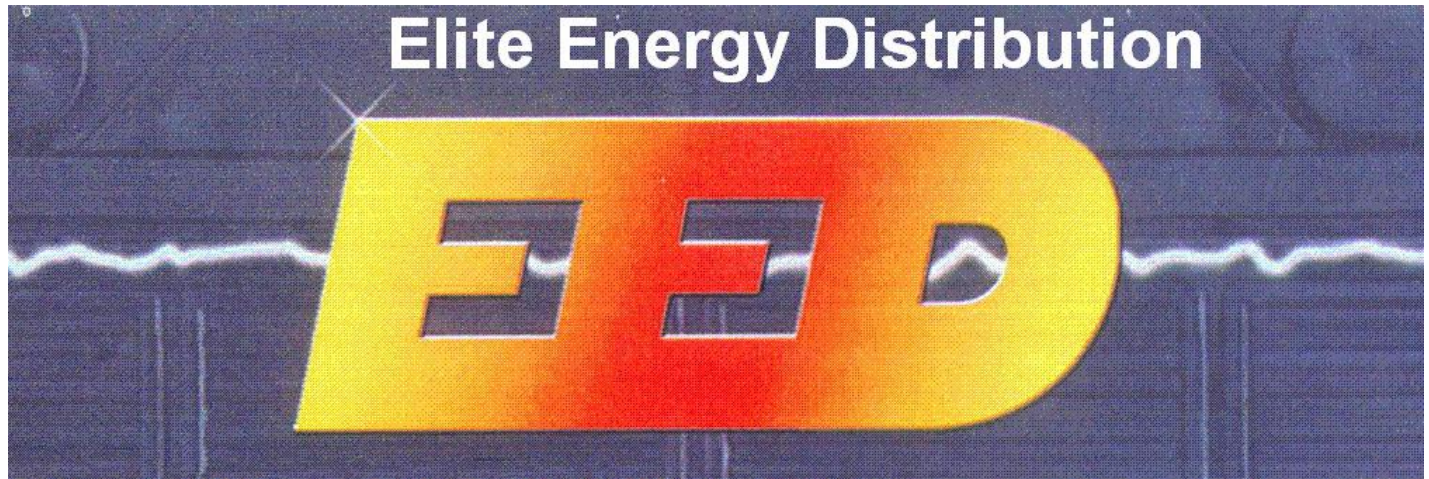
FVEAA's Charter Business Member *Ted Lowe*

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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.



FVEAA's Premier Business Member

Ted Lowe



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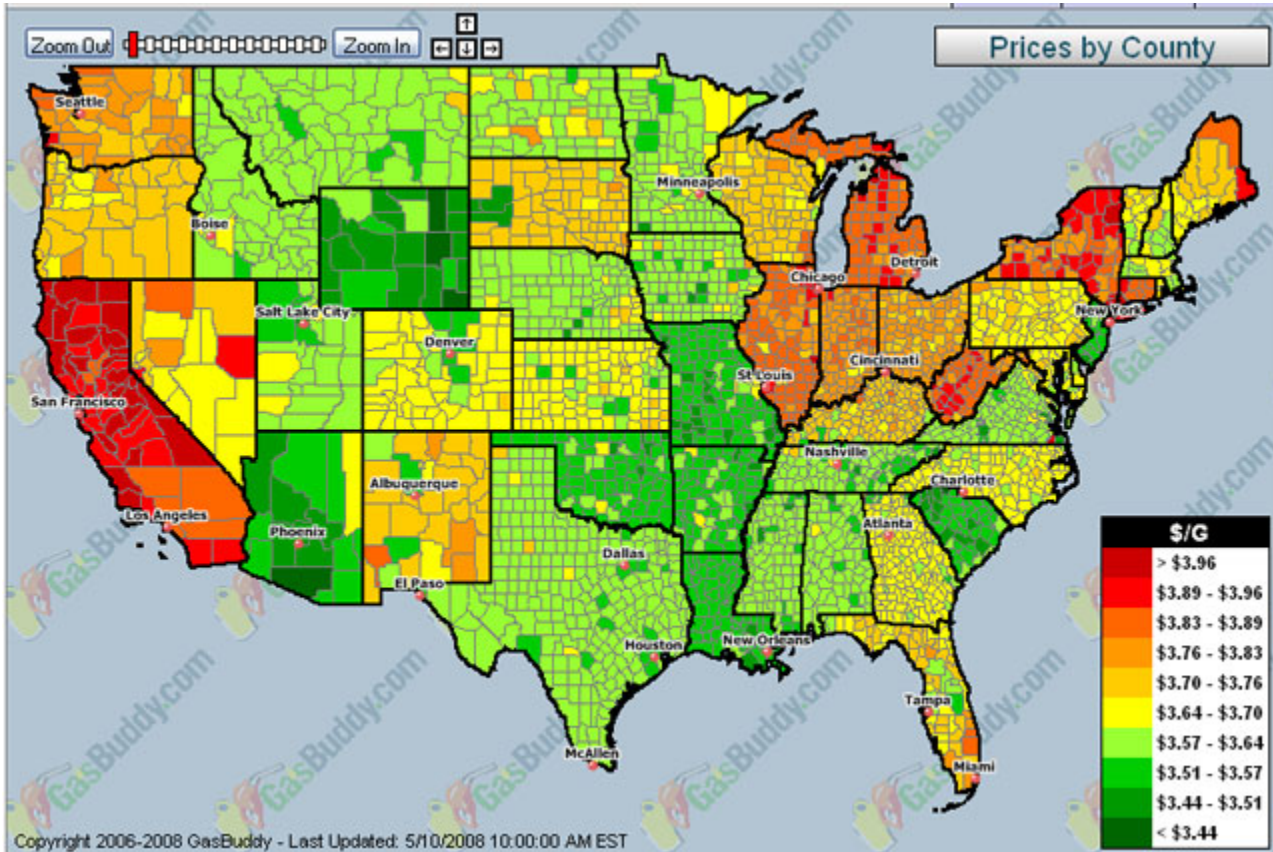
Kenneth Adomaitis
6140 Riverbend Dr
Lisle, IL 60532
Phone: 312-924-3442
Email: info@eco-conversions.com
Web: www.eco-conversions.com

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.

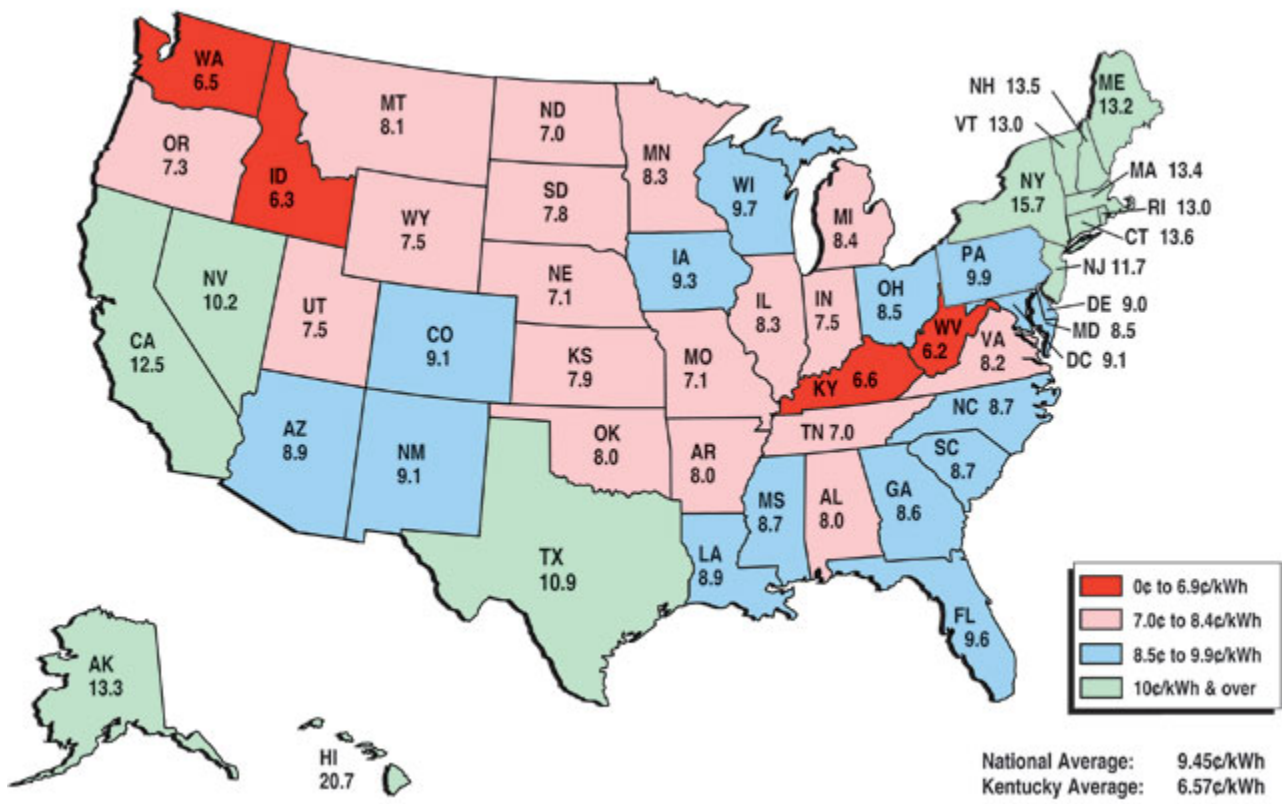
Eco-conversions has partnered with eVionyx, an American company that has developed nickel-zinc rechargeable batteries which can handle over 2000 cycles at 90% DoD. The eVionyx nickel-zinc battery has superior performance as compared to other battery technologies available today. The nickel-zinc cells 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.

Here is status quo for gasoline price variations around the USA (from http://www.gasbuddy.com/gb_gastemperaturemap.aspx):



The amount of complexity in this 'system of fuel distribution' is **clearly HIGH** yet we accept it. We accept wide variations in the regional prices, the seasonal prices and (increasingly) the frequency of variations (almost daily). Recent gasoline prices are too dominated by increasing demand, tight supply and (increasingly) the speculation on future prices.

Contrast this instead to using electricity to "fuel" your car (from <http://www.kaec.org/stand/rates.htm>):
Electric Rates by State - Updated June 2007



Clearly a much more simple and stable arrangement!

And finally, consider how to make "fueling up" EVEN simpler:

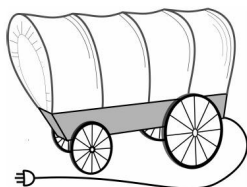


This was the cover of the last issue of Home Power Magazine, an awesome and highly recommend magazine @ <http://www.homepower.com>. I invite your comments on this article. My 2000 Watt solar electric system can provide up to 50% of the charge for my EV on a sunny day. This newsletter is being prepared on a computer that is 100% solar powered!

FVEAA's Business Members

Ted Lowe

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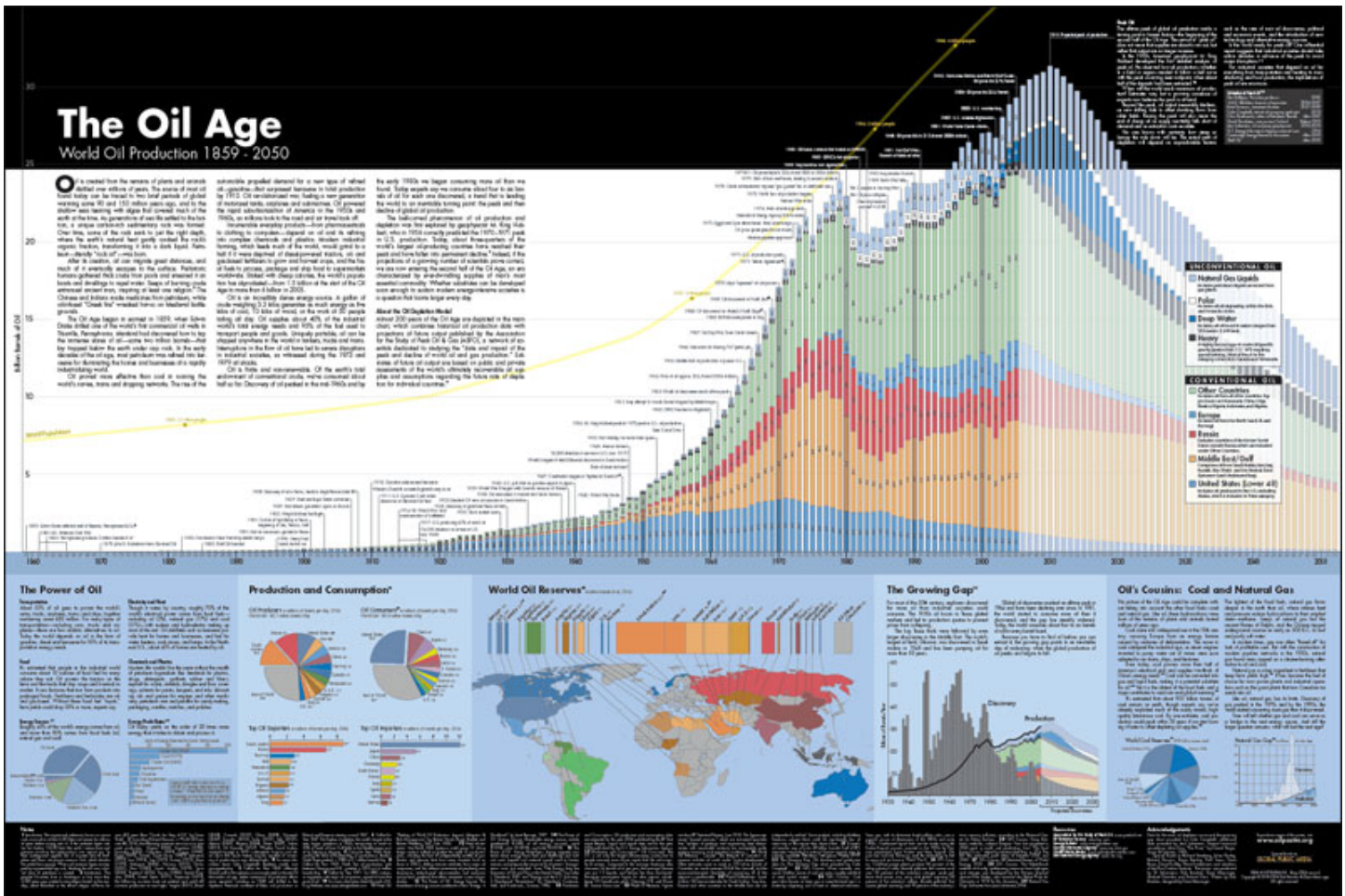
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Read more at:

www.fveaa.org/join

The Oil Age Poster - World Oil Production 1859-2050 - www.oilposter.org

Ted Lowe



Welcome New FVEAAers

Ted Lowe

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

Brandon Greco from Brookfield, IL
Robert "Mac" McPherson from Des Plaines, IL
James Allen from Palatine, IL

Geoffrey Pullinger from Gurnee, IL
Zohaib Khan from Chicago, IL
Curt Volkman from Lake Forest, IL

Lynn Prine from Homewood, 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: 7!

Recruiting goal for 2008: Let's have 200 FVEAA members by the end of the year, 20 of which are business members!



FVEAA Membership Report

as of 2008-05-09 14:01:40

Count of Members by Type

Membership Type	Count	Paid Up
BusinessCharter	1	1
BusinessPremier	1	1
BusinessStd	3	3
Family	20	20
Individual	140	140
LifetimeInd	3	3
Totals	168	168

Other Statistics

Statistic	Value
% Paid Up	100.0%
Avg. Paid Up Days	216.0 days
% With Email	92.3%

Coming Attractions for Next Meeting

Ted Lowe

Tentatively scheduled for the June meeting are: 1) Break-out groups for Show, Tell, Ask, and 2) Extended Ride and Drive. Come one, come all!