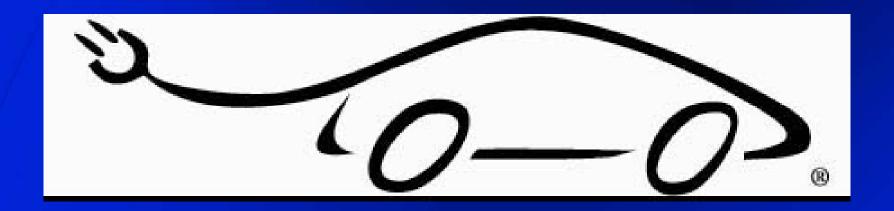
Electric Auto Association 2010 Annual Meeting



Slides for this meeting at:

http://electricauto.org/files/AnnualMeeting/eaa-2010.pdf



Charging into the Future



2010

Welcome!

Ron Freund, EAA Chair

As a courtesy (we can hear you):

- •Mute your phone with *6
- •Un-mute phone with #6



2010 EAA Annual Meeting

- Overview & Intro
- Treasurer Report
- Election Results
- Publications Report
- Membership Report

- Infrastructure Report
- Plug-In Report
- Awards
- Open Member Comments
- Summary

Board of Directors Mtg



2009: Prelude to the Year of the Plug

- Steady membership, growing chapters, change in the air
 - Manufacturers begin to adopt EV technology for the future
 - Prototypes en masse, pre-production testing continues
 - Outreach by chapters and individuals with EVs
 - EAA, PlugInAmerica Workshop w/ 3rd parties on Charging Infrastructure results in agreement to collaborate



2009: A year of Progress

- Tesla ships all nearly 1000 Roadsters
- ACP delivers eBox, scores acceptance with BMW in the eMini
- Fisker Prototype unveils luxury PHEV
- Electrification Coalition, RMI and other efforts to prepare for public plugging in
- PlugInAmerica & CalCars continue successful outreach and advocacy



2009 - Year in Turmoil & Upheaval

- Major US mfg's declare bankruptcy, reorganize, trim down, pieces sold off
- Encouraging outcome means new projects with plugs



2009 - Year of Commitments

- More road-based prototype tests started BMW e-Mini widely accepted
- After years of waiting, major manufacturers will be offering consumers choice in showroom
- Firm commitments and dates for products to arrive in showrooms
 * GM Volt * Nissan Leaf



2009 - Breakthrough Year

- Conversions still prosper: EVDL forum and EValbum.com
- Exciting battery news!
 Lithium power offers lower TCO than lead
- \$0.50 per watt-hour



2009 – Year of Speed

- 4th NEDRA event at Portland International Raceway
- Zombie does 11's, Killacycle 7's
- NEDRA Design News May issue
- 'Zilla production returns
- Jr . Dragsters permitted to try for records



New Zilla Z2K's under production



2009: EAA Milestones

- EAA Special Funds created for Tesla HPC opportunities in
 - Yosemite, LA-SF, LA-LV
- Brokerage account created for member stock donations
- Continued Advertisement: Home Power Magazine and termination
- First membership dues increase since 1998, with two options: print e-copy
- On-line Membership DB planned with special fund
- EAA members have driven over 11.5 million ZEV miles



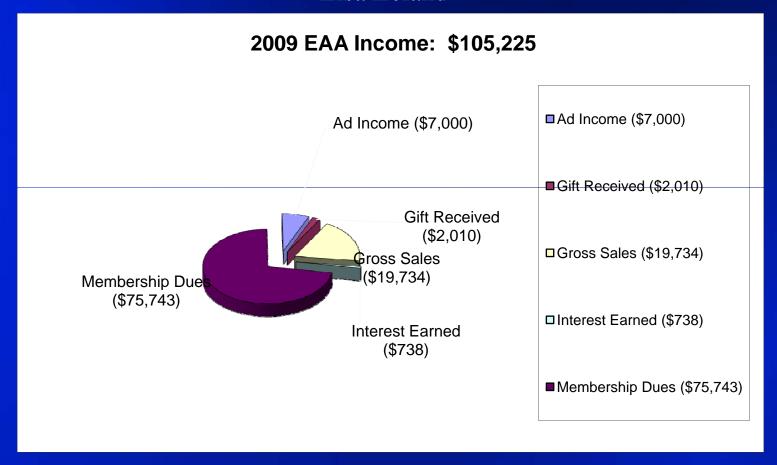
2010: Looking Forward

- GM's Chevy Volt rollout
- Nissan Leaf rollout
- New charging infrastructure buildup
- Electrification of transportation attracting general public
- On-line database testing to begin shortly to save resources



Treasurer Report: Income

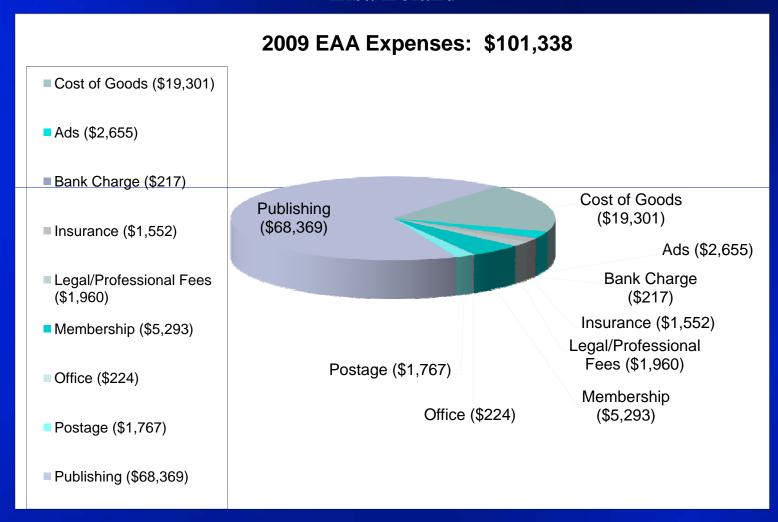
Lisa Ireland





Treasurer Report: Expenses

Lisa Ireland





Secretary Report

Dennis Brandenburg

- Election Results Karen Jones
- Current EVents Newsletter Ron Freund
- Membership Update Will Beckett
- PIA Update Marc Geller
- CalCars update Felix Kramer
- Charging Infrastructure Tom Dowling



Election Results

Karen Jones

2000+ ballots sent out, 434 returned (21%)

- EAA ELECTION RESULTS as of 2/8/08:
- 434 ballots received.
- 401 ballots supported the full slate.
- 33 ballots did not support the full slate.

TALLY:

•	Will Beckett	Central Coast EAA	279
•	Ken Clayton	EV Club of the South	213
•	Ron Freund	SJ EAA	367
•	Tom Sidle	SVEAA	157
•	Doug Stansfield	NJEAA	335
•	Larry Tuttle	MI EAA	306

• The following write-ins each received one vote: John M. Brendel (MI), John R. Brendel (NJ), Damon Thayer (CA)



2010 EAA Board*

Returning:

- Jerry Asher
- Will Beckett (re-elected)
- Dennis Brandenburg
- Don Francis
- Ron Freund (re-elected)
- Marc Geller
- Lisa Blair Ireland
- Earl Killian
- Joseph Lado
- * Terms are three years

Newly Elected:

- Doug Stansfield
- Larry Tuttle

Stepping Down:

- Karen Jones
- Arthur Keller



Election Comments

Karen Jones

- Generally very positive comments
- Members appreciate the newsletter
- Thank you particularly for all the cooperative efforts with other individuals & groups supporting plug-in cars
- Thank you for your advocacy and hard work!



2009 EAA Board Appointees

- Jim Manetta, Webmaster
- Tom Dowling, Infrastructure Open Positions:
- Terry Wilson, Awards
- Daryl McMahon, Historian
- Robert Cooley, Electrathon

- CE Ad Manager
- Grant Writer
- Accounting **Specialist**



CE Publications Report

Ron Freund

- Expanded coverage delivered 12 issues!
- Hit new record page count (impact felt)
- Print and e-copy option introduced
- Introduced Web-based reader option
- Free web access for older issues (pdf)
- Wish list: Create Index for CE Archives



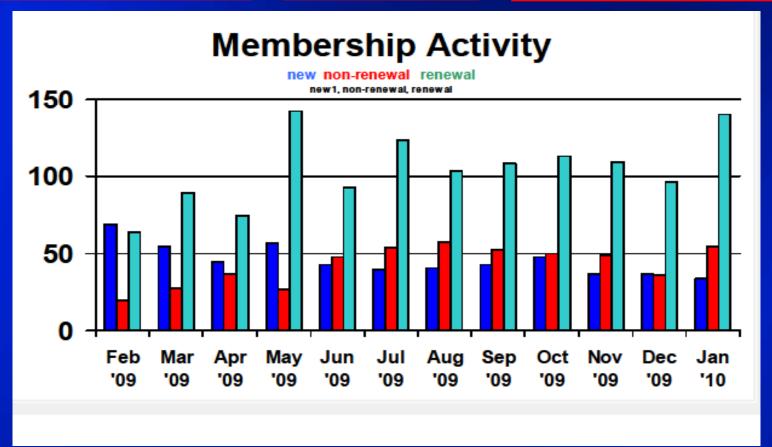
Membership Report

Will Beckett

15 (+1) countries, five continents!

67 Chapters! (+10)

~2100 Members, in all 50 states!





Membership Fee Structure

Will Beckett

USA w/ online newsletter (e-copy)	\$35
USA w/ postal newsletter	\$45
Canada w/ online newsletter (e-copy)	\$35
Canada w/ postal newsletter	\$48
International w/ online newsletter (e-copy)	\$35
International w/ postal newsletter	\$52
Student w/ online newsletter (e-copy)	\$25
Student w/ postal newsletter	\$29
Senior w/ online newsletter (e-copy)	\$25
Senior w/ postal newsletter	\$29
Supporting Level I	\$120
Supporting Level II	\$240
Support for High Voltage	\$500
Support for any purpose	> \$500

Membership locations





Membership locations

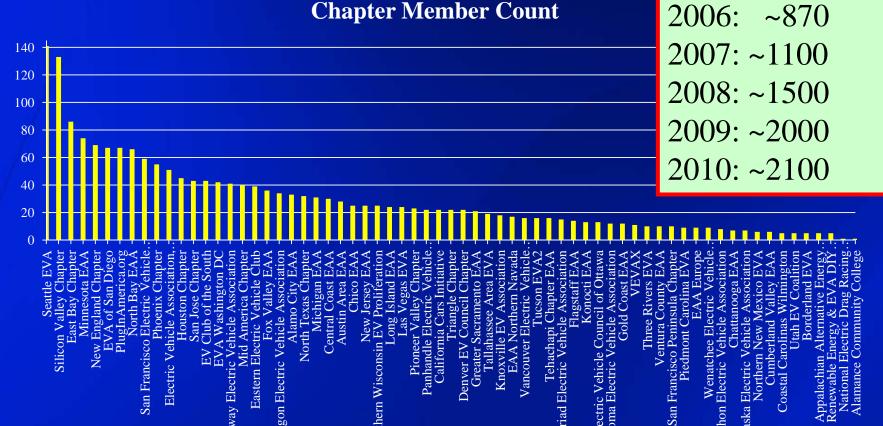




Membership Report



Chapter Member Count



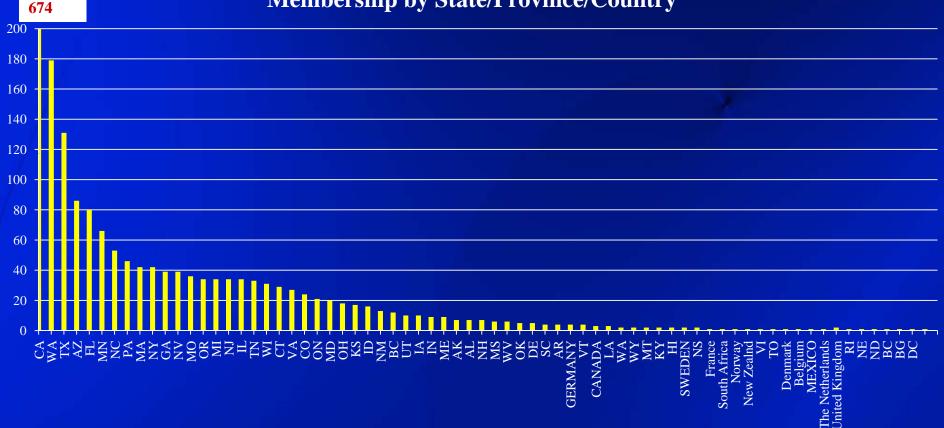


Growth Year to Year

Membership Report

Will Beckett







Break



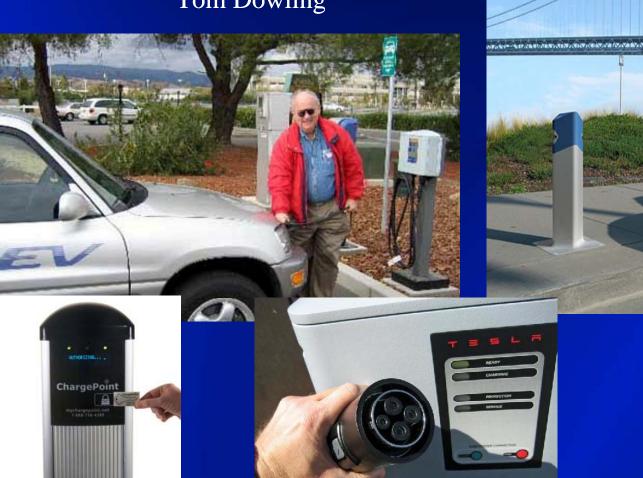
5 minutes



Infrastructure Report

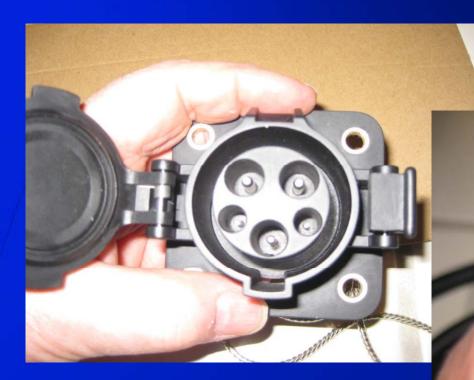








SAE J-1772TM







NEMA 14-50 to SAE J-1772TM adapter prototypes: old and new







Infrastructure Report

- Lingering impression with charger site hosts that EVs are gone
- New infrastructure being created
- Maintenance becoming an issue (vandalism)
- Parts in short supply (prod. discontinued)
- New conflict arising: interoperability. EAA to convene a vendor workshop during Spring 2009 to bring together players.



Infrastructure Report

- Established and maintained relations with Tesla, Coulomb, Clipper Creek and others, including the Oregon Department of Transportation and Sacramento Municipal Utility District, to make sure that the EAA has a voice in charger specifications and deployment.
- Established a new charging site, inductive and conductive, at the West Custom House garage in Monterey, CA. EAA supplied the equipment from our used equipment inventory.
- Assisted Electronic Arts in establishing a new inductive and conductive charging site in Redwood City, California, at Electronic Arts. EAA located a used inductive charger and sold it to Electronic Arts.
- Repaired and replaced chargers at several public locations. Worked with utilities and others to effect repairs in several other public locations.
- Saved some locations from threatened removal by site owners, but lost the battle at some other locations.



EVChargerNews.com

- EVChargernews.com is not an EAA-sponsored or funded Web site. It's owned, operated, and funded by Tom Dowling, and not supported by any user fee, advertising, or any other type of sponsorship or revenue. Strictly a low-budget operation, with lots of input and assistance from the EV community.
- EVChargermaps.com is a companion site that uses Google maps to assist with locating chargers. Evchargermaps.com also hosts the comment system, which allows user comments and "I Was There" reports for each charging site.
- The comments and reports are more important than ever. Be sure to send in your comments every time you visit a charging station. (If you use a charging station often, we'll let you off with one comment per week.)
- When planning a trip, always check the comments for charging stations you may use. The comments are posted instantly, so they are the best source of latest condition information for a given charging site. Credible comments trump the database. If there is a conflict between the database status flags and the comments, go by the information in the comments.



EVChargerNews.com

- Comments can be posted from your iPhone, or from your Blackberry.

 One great thing to do while charging: send in your comments! (If you wait until you get to your destination, you are likely to forget.)
- "There's an App for that!" Search the Apple App Store for EV Charger Finder. Done in cooperation with evchargernews.com by Jeff Lander, a Mini-E driver, it uses the evchargernews database. In some ways, it's more powerful than the desktop version.
 - * We intend to keep enhancing this App.
 - * You can use this App to find locations.
 - * It can link to EVChargermaps.com, where you can submit comments.
- Coulomb Technologies has also come out with an App. For theirs, search the App Store for 'chargepoint'. Right now, all the charging stations shown are 120V Level 1 only. Their App covers only their charging stations.

 www.evchargernews.com intends to "cover the waterfront," including all types and brands of 208-240V charging stations, even including selected RV parks.
- If your chapter would like a demo of the charger apps at one of your meetings, contact me.

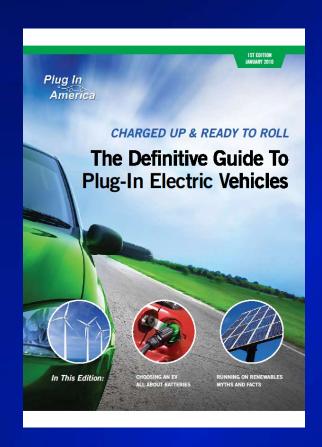


PlugIn America Report

Marc Geller

- Fastest growing, largest affiliated chapter in EAA, currently over 26,000 active supporters
- Successful fundraiser in August called 'Plug-ins Pinots and Progress' with Aptera, Tango, & multiple Tesla's present.
- We have available today print copy of our Resource Guide:

CHARGED UP & READY TO ROLL The Definitive Guide ToPlug-In Electric Vehicles





PlugInAmerica Report

Marc Geller

- Active participation
 - at conferences and events.
 - in Sacramento, Washington, DC meetings with CARB, CEC, CA state and Federal legislator staff and members.
- Monitoring of legislation in State Capitol to represent plug-in vehicle interests.
- Monitoring state of RAV4 EVs to ensure parts availability and Toyota service continuity
- PIA electronic newsletter and action alerts; website includes Podcasts and News Center



CalCars Report



Felix Kramer, Founder
The California Cars Initiative
info@calcars.org

- CalCars is an EAA affiliated organization
- Close coupling between two continues
- EAA formed a Special Interest Group (SIG) with website www.EAA-PHEV.org
- His theme: 'Beyond New Plug-ins'



Beyond New Plug-Ins: Fixing Gas Guzzlers

For updated PDF of this presentation:

www.calcars.org/downlo

ads



2008: First preview of a new industry *Ali Emadi, Felix Kramer, Andy Grove, Andy Frank*



20+ carmakers interested; races to be first; first timetables (see CalCars Carmakers page summary)

















2011 first sales to consumers











Ampera; blended PHEV SUV?

















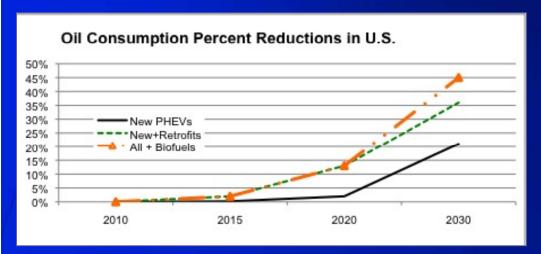








For near- & mid-term impacts, need retrofits

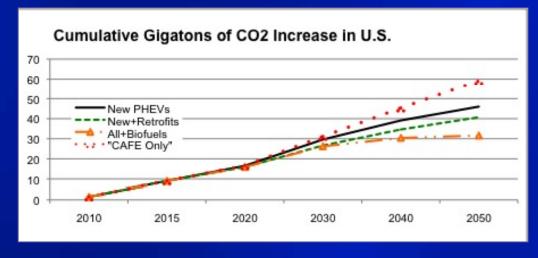


Virtually all near-term oil consumption benefits come from retrofits for a decade.

Maximum long-term CO2 reduction requires a combination of new vehicles, retrofits, and sustainable biofuels.

Source: White Paper, "Cash For Clunkers Paves the Way to Retrofit Gas Guzzlers" from CalCars Home Page.





Hybrid Electric Vehicle Technologies, Inc.





World's First Plug-in Hybrid Electric Pickup Truck, <u>hevt.com</u> Chicago IL

- Founder: IIT Prof. Ali Emadi leading power electronics expert
- 40 million trucks/buses in U.S; 2 million added annually
- F-150 prototype design scales to F-250, 350, school and transit buses
- Simple payback: 2-5 years

- Uniquely converting America's most popular pickup truck, the Ford F-150, to a plug-in hybrid; more than 15 months of testing
- Up to 30 miles all-electric range;
 up to 40% MPG improvement as a hybrid (beyond all-electric range)
- Up to 90 tons of CO2 savings in 12 years; V2G capability; increased lowspeed torque for better towing
- ESTIMATED COST IN VOLUME PRODUCTION: \$15,000 OR LESS
- Seeking investment funding



Rapid Electric Vehicle Technologies, Inc.



rapidelectricvehicles.com

Vancouver British Columbia

- Developing partnerships with Canadian dealers
- All-electric and PHEVs starting with Ford trucks and SUVs
- Contracts pending with public and private fleets
- Seeking investment funding



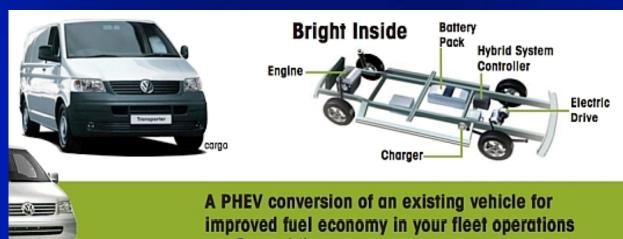


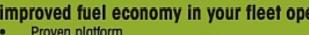
Bright Automotive



Anderson, Indiana

- Interim demonstration of technologies in future Bright "IDEA"
- Platform is VW Transporter (world vehicle, not in US)
- Company beginning first prototype
- Future partnership with VW possible Rocky Mountain Inst. spinoff





- Proven platform
- Plug in hybrid electric vehicle
- 22 mile all-electric (EV) range
- 57 mpg based on 50 mile daily cycle
- Cargo, cab-chassis & passenger versions
- Fleet integration Q2 2010

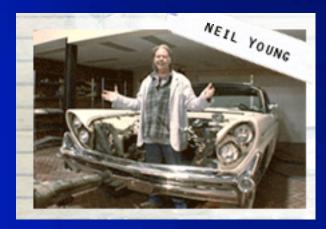


LincVolt/HLine Conversions











lincvolt.com

Woodside, CA

hlineconversion.com

Wichita, KS

- Combines demonstration project and development of new business line
- <u>Neil Young</u>: singer, advocate, technology experimenter; (current CD, "Fork in the Road," about getting off gasoline); forthcoming documentary, "Neil Young Truck Show," about converting his 1959 Lincoln Continental
- <u>Jonathan Goodwin</u>: ICE conversions, including Hummers and other vehicles



2010 Awards

Terry Wilson

- Lifetime Achievement:
 - Oliver Perry, EEVC

Pete Cleaveland to present





The EAA Needs Your Help

CE writing resources

Document your conversion

Unique problem sharing

Photos help tell the story

Chapter activities

• ⇒ board@eaaev.org.,





Member Comments

- Open forum for member comments
 - Your name and chapter
 - Questions, suggestions
- Please limit your comments to 1 minute



Summary & Close

Ron Freund

Summary of comments from members

Contacting us:
 E-mail addresses in newsletter CE, or
 Website (http://electricauto.org)



Thank You





2010 Board of Directors Meeting

- Call to order
- New members introduced
 - Roles and responsibilities identified
- Review roster of appointees
- Next meeting scheduled for March 20, 2010, 8-9 am PDT
- Adjourn

