

Electric Auto Association
of Northern Nevada (EAANN) eNEWS!

Volume 3, Number 6
November 16, 2009

Published several times annually
by the Electric Auto Association
of Northern Nevada

On the web at <http://ElectricNevada.org>
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EAANN eNews ###
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NEXT MEETING ###
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NEXT MEETING: will be held on Thursday, November 19, 2009, from 6:00-7:30 at the Truckee Meadows Water Reclamation Facility, 8500 Clean Water Way, Reno, NV

MEETING TOPICS: The Test Track Dummies, a robotics team comprised of 11 to 14 year olds from The Davidson Academy of Nevada, will present their research project and a working robot.

In preparation for the FIRST Lego League (FLL) robotics competition in Las Vegas on Dec. 5, the Test Track Dummies will present EAANN attendees with their team research project focusing on the problem of pedestrian and bicycle safety along the Virginia Street Corridor and Sierra Street near the University of Nevada, Reno. Members of the Test Track Dummies will also demonstrate the robot they built as a requirement for entry in the FLL competition. This five-minute presentation will be followed by an interactive discussion with EAANN members regarding the team's findings and proposed solution.

Following the Test Track Dummies will be Carol Perry of RTC who will give us a presentation on walkable and bikeable communities. It's really some great information that explains why the streets are designed the way they are.

Also, we'll further develop and discuss the pending "Burning Man" ArtCar and Energy Art Exhibit for the 2010 Artown event next July.

DIRECTIONS: (click <http://electricnevada.org/download/TMWRF_Map.pdf> for a map AND click <http://electricnevada.org/download/TMWRF_Map1.pdf> for an aerial photo of the meeting room location). Clean Water Way is just north of Mill Street off S. McCarren Blvd. You enter Clean Water Way at the UNR Farm (Nevada Agricultural Experiment Station) entrance and go 2.5 miles to the end of the road where you'll arrive at the water plant location. Continue forward (north) through the plant toward the Truckee River, curve to the right, past the visitor's parking on the east to a point where you'll see a double-wide trailer east of the two story warehouse at the north end of the facility.

EVENTS CALENDAR ###
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EVENT: greenUP! Speaker Series - Dr. John Sagebiel
DATE: December 2nd, 2009, 2:30 PM
LOCATION: UNR [Contact Donna for venue information at UNR.]
Contact: donna[AT]sigba.org

John Sagebiel Ph.D. - Environmental affairs manager at the University of Nevada, Reno works to provide a safe, efficient, and environmentally responsible campus. In order to maintain a safe and healthy environment, and do so efficiently, environmental management is part of campus planning. The administration has instituted many programs in recent years to help fulfill institutional responsibilities with respect to the environment. Formerly, Sagebiel was a researcher at the Desert Research Institute.

Sagebiel is an avid cyclist since being an undergraduate at UC-Davis. He rides a specially built "human electric hybrid" bike to campus most mornings from his home. It's a 33-mile roundtrip with a 1,400 foot climb on the way home. "To me," he says, it's all about commuting and having as much fun as I can."

EV Battery Tech Seminar
Seminar will cover Pb-acid and lithium batteries as well as battery containment in the vehicle. Space is limited. Advance registration is required.

DATE: Saturday, January 30, 2010, 10:00 am - 5:30 pm
LOCATION: University Inn & Conference Center, 611 Ocean St., Santa Cruz, CA 95060
COST: \$100.00
LODGINGS: The University Inn also offers discounted room rates. Call (831) 426-7100 and mention Electro Automotive.
TO REGISTER: Please send name(s), phone number & email (in case we need to contact you) and payment to Electro Automotive, PO Box 1113, Felton, CA,

95018.

MORE INFO: Go to <<http://bit.ly/2y19rB>> email [bill\[AT\]electroauto.com](mailto:bill@electroauto.com), or call Electro Automotive at 831-429-1989.

Nissan Announces Dates for Nissan LEAF Zero Emission Tour

Nissan North America announced that the Nissan LEAF zero-emission, all-electric car will make its North American debut in Los Angeles on Nov. 13. The Los Angeles showing will be the first time people in the United States will be able to see the five-passenger, five-door, gasoline-free car, which is embarking on a nationwide tour.

The Nissan LEAF Zero Emission Tour will make stops in 22 cities, in 11 states, the District of Columbia, and Vancouver, Canada, offering the opportunity for interested drivers, media, civic partners, businesses and university students to learn more about the Nissan LEAF and the benefits of zero-emission driving.

Follow the tour, get updates on the final schedule and specific showings, and sign up for more information, at www.nissanusa.com/leaf-electric-car. Look for the Nissan LEAF to make public appearances in the following areas during these times:

Northern California

- Berkeley/Walnut Creek: Nov. 23-24
- San Francisco: Nov. 25-29
- Santa Rosa: Dec. 1
- Sacramento: Dec. 1
- San Jose: Dec. 3-6

Southwest

- Las Vegas: Jan. 6

For additional locations and times please visit the Nissan website at <<http://bit.ly/urRhV>>. Also, please leave Nissan the message: No plug? No option to purchase the battery pack? No deal!

 ### MEETING REVIEW ###
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At our last meeting Travis Johnson of NV Energy gave the presentation Power Systems & Electric Vehicles. Travis is a manager of substation construction and maintenance for NV Energy as well as the company's public and industry liaison on electric drive transportation. His presentation was excellent and can be downloaded here <<http://tinyurl.com/ylltur3>>.

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FACEBOOK, TWITTER, & LISTSERVS ###
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The Electric Auto Association of Northern Nevada general local listserv.
Discuss EV & energy news and EVents here <<http://tinyurl.com/3xs4jk>>.

Electric Vehicle National Discussion List, founded in 1991, follow this link
<<http://www.evdl.org/>> for more information.

[Editor's note: Be sure to select the "digest" option instead of
"individual" emails as this is a very busy list and will fill up your inbox
quickly! Or, if you prefer to not receive emails you can read the list
online.]

The Electric Auto Association of Northern Nevada (EAANN) is on Facebook at
<<http://tinyurl.com/dmdvnb>>.

And follow EAANN co-chair Bob Tregilus on Twitter at
<<http://twitter.com/BobTregilus>>.

WATT'S UP? ###
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A BATTERY LEASING CONSPIRACY HYPOTHESIS
THAT'S WATT!
by Bob Tregilus, EAANN Co-chair

Responding to: Renault-Nissan Alliance Forges Zero-Emission Vehicle
Agreement With Reliant Energy <<http://bit.ly/43gRAr>>.

Although the article doesn't specifically mention battery leasing, it does
state that Nissan and Reliant Energy "will work to coordinate the
establishment of policies and help streamline charging infrastructure
deployment."

The establishment of what polices?

While I can certainly appreciate automaker's efforts to reduce early-adopter
sticker-shock by creatively deferring battery costs overtime through leasing
schemes, at the same time I'm also growing increasingly apprehensive that
the automaker's insistence on retaining exclusive rights of xEV battery
packs will set a precedent that may prove impossible to break in the future.

My fear stems from what appears to be the creation of a duopolistic
relationship between automakers and utilities when it comes to the value
chains soon to be realized through electrical energy storage on the grid.

Specifically, a number of forces are coming together fueled, in part, by the
recent introduction of European style renewable energy feed-in tariffs
(FITs) into North America. FITs are a policy tool that tends to foster rapid

deployment of distributed generation capacity, over centralized, resulting in the creation of microgrids.

Of course, through vehicle-to-grid (V2G) technology xEV battery packs maybe be used to offset ancillary services, such as frequency regulation and spinning reserves, and by effectively providing the minimum buffer storage requirement (MBSR) necessary for large scale deployment of intermittent renewable electrical energy generation technologies. Under such a scenario, widely dispersed static - as well as mobile - electrical energy storage will be required to insure and bolster grid reliability in the future.

In the case of mobile storage and V2G, the work of Dr. Willett Kempton et al, at the University of Delaware, suggests utilization of xEV battery packs will be - a very cost effective way - to address these future requirements in the utility sector - and by extension the cost savings could be passed on to the owner of the battery packs.

Also, once xEV battery packs are exhausted in demanding transportation applications many experts feel the packs can be re-purposed and sold for static storage applications on the grid long before they are eventually shipped off to the recycling factory. There may even be additional revenues realized in disposal of the packs to recycling plants as well.

In short, I think we're seeing automakers begin to scale horizontally by creating partnerships with utilities. The automakers realize there are many potential value chains to xEV battery packs other than simply serving as a single purpose disposable fuel tank in electric-drive transportation. These arrangements will likely limit the consumer's participation in the electric car battery's value chain thereby slowing deployment and innovation where the smart-grid and electric drive transportation intersect.

How's Zap?
Bob

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### FEATURED ALTERNATIVE TRANSPORTATION WEBSITE ###  
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1) COMMUNITY ELECTRIFYING THE URBAN COMMUTE

"ChargeCar is dedicated to open, community-centered teamwork for making electric vehicles practical and affordable enough to revolutionize urban commuting. You can calculate the cost of commuting with an electric car using your actual commute data, compare the efficiency of gasoline and electric cars for your trips, browse commutes across the country and work on a smart controller for our programming contest."

[Editor's note: I just now found this site and it looks real interesting, but I have yet to fully review it. It's has a great video, at least what I seen of it.]

View the website here:
<http://chargecar.org>

2) RTC SMART TRIPS

"Welcome to the RTC SMART TRIPS program, a free, web-based service that uses advanced technology to make carpool/bike buddy matching easy, fast, convenient, and accurate. Enter your traveling preferences and receive the best potential carpool matches back in a matter of seconds. You control the personal information that is shown to other travelers, so you know your information is secure. With a click of your mouse you can contact your preferred matches instantly via email to discuss your needs and expectations. You don't have to carpool every day to make an important difference. Start out trying it one or to two days a week and go from there. Every shared trip benefits both you and our community." They now have Bike Buddy Matching too!

[Editor's note: Come meet Carol Perry of the RTC SMART TRIPS program at our next meeting!]

Visit the website here:
<http://rtcwashoe.greenride.com>

EVs IN THE NEWS ###
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3) APTERA FOUNDERS OUSTED IN BOARDROOM SHOWDOWN

"Aptera Motors has ousted founders Steve Fambro and Chris Anthony, sources told Wired, painting a picture of a boardroom confrontation between the original founders and the auto industry veterans the company brought in last fall."

[Article contributed by @djsiry.]

Full article here:
<http://tinyurl.com/yzalyh8>

4) NISSAN'S LEAF FALLS GENTLY TO EARTH IN LA

"Renault/Nissan, was on hand to introduce the new Nissan Leaf electric car this morning at Dodger Stadium in Los Angeles. A large crowd of media and EV enthusiasts were on hand to drive the Nissan Versa test vehicle sporting the electric drive train of the Leaf."

[Editor's note: This is Paul Scott's blog. Paul is a co-founder of Plug In America and his blog is worth visiting on a regular basis.]

Full article here:
<http://tinyurl.com/yjzkoxq>

5) NISSAN THROWS DOWN THE NEXT GAUNTLET OF THE EV WAVE

"The new Nissan Leaf electric vehicle was unveiled in Los Angeles this weekend. I took a trip out to Glendale to take a look."

Full article here:
<http://bit.ly/lv9F5Q>

6) NISSAN'S ELECTRIC LEAF SPREADS THE EV GOSPEL

"LOS ANGELES – Nissan's big bet on electric vehicles rolled silently into Dodger Stadium today, the first stop on the Japanese automaker's 22-city nationwide tour to spread the EV gospel. Company CEO Carlos Ghosn is among the industry's loudest EV evangelists, and he firmly believes the four-door, five passenger Nissan Leaf will usher in the era of cleaner, greener motoring when it goes on sale late next year."

[Editor's note: Please see the events section in this newsletter for tour dates. The LEAF will be in Sacramento and Las Vegas!]

Full article here:
<http://tinyurl.com/ygla3vq>

7) RELIANT ENERGY TO OFFER PLUG-IN SERVICES TO EVS

"Reliant Energy is working on a plan to offer services for electric vehicles. David Crane, the chief executive of Reliant's parent company, NRG Energy Inc., said in an exclusive interview he sees a market for support services around plug-in electric vehicles."

[Editor's note: Chelsea Sexton (of Who Killed the Electric Car?) pointed out that in the article "NRG energy company CEO David Crane only drives his 240-mile range Tesla 40 miles max because of range anxiety? So many levels of sad." I might add, "so many levels of range anxiety *psychosis*!"]

Full article here:
<http://tinyurl.com/ybn4b8q>

8) BRAMMO CUTS ENERTIA PRICE TO \$7,995

"A few weeks back, we got to meet a couple of the guys from electric motorcycle maker Brammo as they set off on a road trip from Ann Arbor to Washington, D.C. We thought the new Enertia powercycle was a pretty cool

ride but we were a bit shocked at the \$11,995 price tag. Well, it looks like Brammo was seeing some inertia to the Enertia's sticker price and have made an adjustment. As of today, the Enertia is priced at a more palatable \$7,995 and a 10 percent federal tax credit drops the price down to just \$7,195." [Editor's note: Please - someone in Reno/Sparks buy one!]

Full article here:

<http://tinyurl.com/yfpg3fy>

9) LEN BECK'S V2G-101 EXPLAINS IT ALL

"At least once every couple of weeks, I field a question about why I think electric vehicles are better for the environment than their fossil fuel-guzzling counterparts, when most of our electricity here in the U.S. is made in coal-fired power plants. My patent answer is usually something along the lines of "because it's a whole lot easier to control emissions from one power plant than a million tailpipes" or "because we're moving away from that dirty stuff." I didn't feel educated enough, and certainly not patient enough, to give a better answer than that."

Full article here:

<http://tinyurl.com/yh64ovy>

10) 2,300 & 4,000 ON WAITING FOR THINK CITY & APTERA

"Who wants an electric car? The hundreds and thousands of people who've joined waiting lists that's who."

[Editor's note: Yay! ;>)]

Full article here:

<http://tinyurl.com/yhkxvgn>

11) COST OF NISSAN LEAF EV WILL EQUAL CIVIC

"Pricing has not been set yet on Nissan's Leaf electric car (pictured), which will see limited distribution starting late next year, but the automaker's top marketing executive for North America told us today that the monthly cost to the consumer should be equivalent to the monthly cost of a fully loaded Honda Civic plus its fuel."

Full article here:

<http://tinyurl.com/ygnxnpk>

12) COAXING AUTO MAKERS IN U.S. TO GO ELECTRIC

"What will it take to get more electric cars on American roads? Lots of federal cash and maybe the auto-industry version of a "buy one, get one free" deal."

Full article here:

<http://tinyurl.com/ycyc3b4>

13) CHRYSLER DROPS THREE ELECTRIC VEHICLES

"Chrysler has disbanded the engineering team that was trying to bring three electric models to market as a rush job, Automotive News reports today. Chrysler cited its devotion to electric vehicles as one of the key reasons why the Obama administration and Congress needed to give it \$12.5 billion in bailout money, the News points out."

Full article here:

<http://tinyurl.com/y98ckoa>

14) PURE ELECTRIC SEDAN: FANTASTIC, AMAZING & ELECTRIC

"Pure electric cars have never looked good, remaining in the domain of the odd two door city car like the fake smart cars and Geewhizz electric cars in London, however Beijing Automotive seem to have plans to totally change the face of the electric car with the introduction of the Beijing branded electric sedan that was unveiled to the press today."

Full article here:

<http://tinyurl.com/ygx7fhk>

15) Force begins electric car trial

"Hampshire Constabulary has started a trial of an electric car, with a view to reducing the carbon footprint of its vehicle fleet. Mitsubishi's electric MiEV, which has four doors and seats four people, will be a frequent sight in and around Winchester for the next two weeks."

Full article here:

<http://tinyurl.com/ygb4n9k>

EV & ENERGY VIDEO & AUDIO REPORTS ###
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16) IN THE WORKSHOP OF THE CAR COMPANY OF THE FUTURE

"We visit Tesla's flagship retail store and assembly facility in Menlo Park, CA."

[Editor's note: This is a really great video. But despite what the Tesla sales gal says, I think Tesla Roadster owners fall into these three categories: a.) Engineering "gotta have the latest greatest tech toy" geeks b.) Sportscar "gotta go the fastest" freaks c.) Environmentalists. I've yet to meet a Roadster owner who's an environmentalist.]

Video report here:

<http://tinyurl.com/yalc34p>

17) EVCAST #286 GM WON'T SELL!

"Join Nikki Gordon-Bloomfield and guests Simon Hackett and Bob Tregilus for this weekend's EVcast. Simon Hackett talks about his trip across Australia in a Tesla and Bob and Nikki discuss the most recent EV news events."

[Editor's note: Yes, I know, shameless self-promotion here, but also Nikki and I are very likely to start a new weekly netcast together entitled "This Week in Energy." Watch for it soon!]

Video and audio report here:

<http://tinyurl.com/yja9jc6>

18) NIKKI DRIVES...SMART ED PROTOTYPE

"Join EVcast host Nikki Gordon-Bloomfield as she drives the Smart Fortwo ED prototype around Milton Keynes. The Smart ED she's driving is based on a 2006 Smart ForTwo, with batteries and drivetrain by Zytec. The Smart ED which will be released later this year on public trail will have an upgraded drivetrain and battery system and will be based on the current Smart ForTwo body style."

Video and article here:

<http://nikkidrives.blip.tv>

19) SOLAR POWER INTERNATIONAL 2009

"See our coverage of Solar Power International 2009 - In addition to the video highlights below, you can view full video and news coverage on the World's #1 Renewable Energy website. See what you missed in Anaheim, California and find out what's happening in the world of solar energy today!"

Videos here:

<http://tinyurl.com/yj8qh5x>

20) RMI2009 PANEL: IS NUCLEAR POWER A CLIMATE FIX OR FOLLY?

"Listen and watch RMI Chairman and Chief Scientist Amory Lovins and the University of Chicago's Robert Rosner discuss the pros and cons of nuclear-powered electricity at RMI2009."

Video here:

<http://www.rmi.org>

ENERGY NEWS ###
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21) PUCN ASKED TO CONSIDER NEW TYPE OF POWER RATE

"An interim legislative committee asked the state Public Utilities Commission today to investigate a new form of electric rate that supporters say would boost green-energy jobs."

[Editor's note: Not a very good article but it expresses the sense that the Electric Auto Association of Northern Nevada's renewable energy feed-in tariffs initiative is being taken very seriously. You can learn more at our website <<http://ElectricNevada.org>>.]

Full article here:

<http://tinyurl.com/ylg9ocy>

22) SOLAR PV ON YOUR ROOF? NV LAW MAKES LEASING POSSIBLE

"Parking garages typically serve one obvious function. But drive to the top of the parking garage on First and Sierra Streets in downtown Reno, and you'll realize that this is one facility that also can take the heat."

Full article here:

<http://tinyurl.com/yj5bhtq>

23) ORMAT SIGNS 30-MW, 20-YEAR PPA WITH NV Energy

"Ormat Technologies Inc. announced that one of its subsidiaries has signed a 20-year power purchase agreement (PPA) with Nevada Power Company, a subsidiary of NV Energy Inc., to purchase 30 megawatts (MW) from the McGinness Hills Geothermal project, which is currently under construction."

Full article here:
<http://tinyurl.com/yljr7xy>

24) 3 QUESTIONS FOR 3 ENERGY STORAGE EXPERTS

"Amid heated debates over clean power sources, how to build out the smart grid, and the future of advanced transportation, one thing's clear: Energy storage technology will play a key role in all of these transformations. Energy storage – from batteries to ultracapacitors to pumped hydro to compressed air – will be crucial for the development of electric vehicles, will make sporadic clean power (solar and wind) more reliable, and enable the utilities to more smartly manage power grid loads."

Full article here:
<http://tinyurl.com/yz8uu3z>

25) TEST DRIVE: A HUNT FOR VAMPIRE POWER

"We enlisted an unprofessional reviewer to test the Kill-A-Watt in his home. Verdict? 'Green' battery chargers for rechargeable batteries are a problem."

Full article here:
<http://tinyurl.com/yhq265j>

CLASSIFIEDS ###
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CLASSIC MOTOR CARRIAGE 1929 MERCEDES REPLICIA GAZELLE KIT, complete and never started. Includes body and custom steel frame (designed to use a Chevy Chevette donor car) and all that comes with the standard kit. Parts were stored well and appears like new. Extras include chrome luggage carrier, chrome wheels with wire wheel centers, exhaust. There is no engine, trans, rear end, drive train, suspension, steering column or gauges. Has all paperwork, Certificate of Origin, receipts and manuals. The body is white, fenders brown and the interior is tan. Located in south Reno. Electric car conversion or? I am selling this for a friend. For more info contact Joe Rajacic, 775 232-9235, \$1750 or best offer.

2001 FORD RANGER (DETAILED PHOTOS AVAILABLE), ELECTRIC BUILD COMPLETED IN 2006, beautiful, detailed custom job. 120v DC system, 60-mile range @ 45-50mph, 85mph top speed, insulated/heated battery boxes, 20 deep cycle 6v batteries, new 4-year 19,000-mile battery pack will be installed 11/09, onboard 120v AC charger plugs in anywhere, full charge overnight, cab heat

and defrost for comfortable winter driving, power brakes and steering, tow package for light loads. Ideal commuter vehicle for any urban dweller, only 4 cents per mile to run. Only maintenance required is a motor brush replacement at 80,000 miles. Runs beautifully, clean, quiet. Valued at \$30,000. Located South Central Oregon. Call Max at 541-943-3353, message or fax to 541-943-3354.

THREE WHEELED WILDFIRE EV FOR SALE. It's a couple years old and has been sitting in my drive way. Has about 40 miles on it. Was over \$5,000 when I bought it new- asking for \$500 to get it out of my hair (and to get my home owners association off my back). 96v system. When purchased it was supposed to go 47mph (which should be easy for a 96V system) but only went 38mph. I blew the controller testing different things to try and bring it to a higher top speed. Paint looks a little faded from sitting there (may just need a wash). Includes the original batteries (which are not installed). Contactors (which are fine) and speed control (which is blown) need to be reinstalled. Seats are currently out, but I can pop these back in for transport (had them out for easier access to electronics. Dash board control panel is out (the plexi that covers it got shattered) is functional, but needs reinstall and a new piece of covering glass (optional). Comes with paperwork to obtain MSO for registration from Wildfire. Comes with a new front tire on rim ready for install (original front tire, currently on, is flat and was made of VINYL!) Give me a call if you'd like to come see- can be up and running with a few hours of work, but will need a new controller to be functional.
<<http://ElectricNevada.org/pics/rsv.jpg>> Skot Meyer, 225-0815 President, Meyer Rosene Advertising Design

BOMBARDIER NEV FOR SALE: I need my driveway space and want to sell my cute little NEV am asking \$4,000. The Bombardier is 8.3 feet long, 4.6 feet wide 5 feet tall. Weighs about 1,276 pounds with batteries. Non-skid material in footwells is intact. Hand parking brake. In-body charger. Two seat belts with three point attachment. Turn signals, horn, parking and head lights, a full set of canvas and plastic side and back covers with plastic windows, trunk, glovebox, four wells for drinking glasses or soda cans in the front dash area, two bucket seats the undercarriage in fine shape, The tire size is 145R12. The motor, is DC shunt 72 volt, air cooled, 5 hp continuous up to 20 hp peak, the charger is an integrated 110V 15 A unit with 12V auxiliary battery charger. I replaced the original dead 300 amp controller with the factory upgrade kit it now has a 400 amp Curtis unit, with regenerative braking. Seats: The plastic of the seats do not have any rips or tears with the exception of a small one on the driver side seen in photo. For being ten years old, they are in great shape. The seat bottoms are lifting a bit from the metal edge of the seat bottoms (see photographs) and the underlying foam can be seen a bit. Batteries: The vehicle needs new batteries and requires six deep cycle 12V batteries 80 up to 120 ah and one small 12 volt battery for the dashboard electronics, lights etc. Originally, Bombardier made these units so the batteries had to be serviced from underneath, requiring a car hoist on which to lift them. Although you could modify it for top access.

NEVs: Neighborhood Electrical Vehicles are a category of vehicle that is street legal but can only be used on streets with speed limits of 35 miles per hour or less. The Bombardier NEVs were made for only about three years, 1997 to 1999. To the best of my knowledge, only one Bombardier NEV parts supplier exists in the United States, and that is Peacock in Michigan. <http://www.peacockltd.com/miscpage_002.asp>. Because it was originally owned by the University this NEV was never registered in Nevada. I have the factory title and will transfer to a new owner. Follow these links for pictures: <<http://www.electricnevada.org/download/photo1.jpg>> <<http://www.electricnevada.org/download/photo2.jpg>> <<http://www.electricnevada.org/download/photo3.jpg>> <<http://www.electricnevada.org/download/photo4.jpg>> Call Bill Brinsmead, 775 784-1502, or email billb@physics.unr.edu.

6 HP SEPARATELY EXCITED DC MOTOR: I also have a large 6hp separately excited DC motor that I'd like to sell for \$150. It can be wired as either a series wound or a shunt wound.....therefore, it gives you electric gearing with proper switching. Provides good torque for acceleration and can switch over for better continuous speed efficiency. It can produce over 20hp with the right amplifier. It's too small for large cars or conversions, but is very good for carts or whatever. Would be great for a Burning Man vehicle if anyone is interested. Please pass along that listing too if it isn't too much trouble. Contact Kevin Kaiser (775) 233-9035

ALTRAX AXE 4844 24-48VDC 400 AMP PROGRAMMABLE CONTROLLER: For series wound or permanent magnet motors. More info here <http://www.alltraxinc.com/Products_AXE.html> Brand new. \$350.00 obo. Call Bob 775 826-4514.

STARTECH 5 PORT 10BASET NETWORK MICRO HUB: I have a bunch of these. They are brand new in the box with full documentation. I'll sell them in quantities of one and up. \$5.00 each, discount with quantities. Follow this link for more details and a picture <<http://tinyurl.com/a5e5hl>> Call Bob 775 826-4514.

2.4 GHZ 19 DBI WIRELESS WIFI CPE ANTENNA 802.11B: New, in original box, 2.4GHz 19 dBi Flat-Panel Directional Consumer Premise Equipment (CPE) Antenna by MapelNet with a mounting bracket and hardware, Power over Ethernet (PoE) inserter and transformer, and 8 feet of Cat5e cable with 8P8C (aka RJ45) connectors. Universal one-legged powder coated antenna mount (1.66" OD mast) with hardware \$10.00 extra. These flat panel directional antennas offer a high gain in a very thin, low profile package. They are very rugged and completely weatherproof for extremely long-life in the harshest of environments. The radome is manufactured from a special UV

resistant plastic to reduce the effects of solar radiation which can degrade normal plastics. The industry standard 8P8C (aka RJ45) connector ensures compatibility. The tight beamwidths and good front to back spec help to minimize interference in the microwave link. High impact super strong four point plastic mounting system with corrosion resistant zinc plated hardware insures stability and long-life. The antennas can be mounted in Vertical Polarization or Horizontal polarization by a simple change to the bracket mounting. These antennas are designed to be used in installations where aesthetics and high performance are key factors. Specifications:

Manufacturer: MapleNet Manufacturer; Part Number: i19 CPE with Wisp-Pro-2400 radio; Gain: 19 dBi WLAN; Standard: IEEE 802.11b; Frequency: 2.4 Ghz; Throughput: 5 Mbits/s; Net Bit Rate: 11 Mbit/s; Interface Type: 8P8C (aka RJ45); PoE Input Power: 120vac, .24A; PoE Output Power: 14vdc, 1,200mA; Operating Temperature: -40 – 158 Deg F; Pole Size: 1 – 2 In; Weight: 60 oz; Dimensions (LxWxD): 15.3 x 14.6 x 0.8 In; Bracket Tilt: 45 Deg. \$30.00ea
Call Bob 775 826-4514.

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WHO WE ARE, SUBMISSIONS, & LEGAL ###
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ELECTRIC AUTO ASSOCIATION (EAA) ###
The Electric Auto Association of Northern Nevada (EAANN) is a chapter of the national Electric Auto Association whose mission, in part, is "to act as a public source of information about developments in electric vehicle technology, to encourage experimentation in the building of electric vehicles, and to organize public exhibits and events of electric vehicles to educate the public on the progress and benefits of electric vehicle technology."

The EAA of Northern Nevada (EAANN) is also involved with urban planning that promotes equitable smart-growth policies which include efficient walkable / bikeable communities augmented with clean public transportation options and greenspaces. To that end we are actively developing initiatives to accelerate deployment of distributed renewable energy generation capacity with a focus on "smart-garage" implementation where buildings, transportation, and the electric grid meet forming a synergistic relationship that enhances efficiency, reduces costs, and mitigates climate changing greenhouse gas emissions.

Please support the Electric Auto Association (EAA)! You may join by visiting the national EAA website <<http://www.eaaev.org/eaamembership.html>> or by sending \$39.00 (\$25.00 seniors) to:

Electric Auto Association
Membership Renewals
323 Los Altos Drive
Aptos, CA 95003-5248

Your donations are tax deductible. The Electric Auto Association (EAA) is a non-profit organization [501(c)(3)] for the promotion of Electric Vehicles. You will receive the very informative EAA publication, _Current EVents_.

Electric Auto Association of Northern Nevada (EAANN) officers are:
Bob Tregilus - Co-chair / EAANN web & eNews editor
Chuck Swackhammer - Co-chair
Peter Fletcher - Treasurer
Secretary - vacant

SUBMISSIONS

Your article contributions and letters to the editor are welcome! Please submit original articles to Bob Tregilus: lakeport104@yahoo.com. In the interest of accuracy you are requested to provide citations for any facts stated in your article(s). This is a "plain text" eNewsletter and as such no photographs can be published although we can certainly link to them at another location. All contributions maybe edited for length and clarity. They may be messed-up by mistake as well. Warning: dyslexic editor at work!

COMMENTS

Please call 775.826.4514 or email your comments to Bob Tregilus at lakeport104@yahoo.com.

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