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# ALTERNATIVE TRANSPORTATION NEWS (ATC eNEWS)
#
# Volume 2, Number 4
# July 16, 2008
#
# Published roughly once a month
# by the Alternative Transportation Club &
# Electric Auto Association of Northern Nevada
#
# On the web at http://ElectricNevada.org
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CLASSIFIEDS

WHO WE ARE, SUBMISSIONS, & LEGAL

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ATC eNews

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NEXT MEETING

Our next meeting will be on Thursday, July 24th, at 5:30 p.m. at the Northwest Reno Library <<http://tinyurl.com/39whwa>>.

The elections should only take a half-hour after which we'll hold an open discussion for people to share current electric vehicle news and activities.

* * * ELECTIONS! * * *

Elections for club officers will be held during July's meeting (Thursday, July 24th at 5:30-6:00 pm). If you are interested in running for the position of Chair, Vice-chair, Secretary, or Treasurer, or wish to nominate someone for the positions, please submit names to Bob Tregilus at lakeport104@yahoo.com.

Also, if you think there is a new office that is needed within our organization please consider creating it and nominating yourself to that position. Anonymous nominations are welcome as well. There will also be an opportunity to nominate people prior to the elections. If you have any questions please contact Bob at 775 826-4514.

THE CHAIRPERSON shall have all the general powers and duties of management usually vested in the President or Chief Executive Officer of a corporation. The Chair should consult with the other officers prior to making or acting on decisions.

THE VICE-CHAIR shall have all the powers of the Chair, however, he or she should consult with the Chair or other officers, if it is convenient, prior to making or acting on any decisions.

THE SECRETARY shall keep:

- 1. Minutes of all meetings. (The minutes need not be detailed.)
- 2. Maintain the member contact database. (If the secretary has no experience with databases another officer may handle this task.)

THE TREASURER shall be responsible for maintaining an accurate account of monies held in the Alternative Transportation Club, EAA chapter account with the Electric Auto Association.

OTHER OFFICE? Dream one up, the group will vote on it, and perhaps elect you to the position!

As of 7/16/08 the Chair, Bob Tregilus; Vice-chair, Chuck Swackhammer; and Treasurer, Peter Fletcher are all seeking re-election to their current positions. The office of Secretary has no nominees at this time.

EVENTS CALENDAR ###
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Wednesday, August 6th, 4:30 - 9:00 p.m.

The ATC will have a booth at the Nevada EcoNet's, "Eco-Nights" at the new West Street Market in downtown Reno. It will be during Hot August Nights on Wednesday, 8/6 and the theme, of course, is Eco-Transport. All members and non-members are welcome to come to the market and display their EVs! Please RSVP with Bob by calling 775.826.4514 or send an email to lakeport104@yahoo.com.

Sunday, September 21, 11 - 4pm

International Day of Peace Fair: Growing Communities of Hope, Creating a Culture of Peace. The fair will be held in East Wingfield Park, along the beautiful Truckee River in downtown Reno. The ATC will have an electric vehicle booth at this event. Please RSVP with Bob by calling 775.826.4514 or send an email to lakeport104@yahoo.com.

October 3 - 5

Mark your calendars for October 3-5. Details are still in the works, but Sherry Boschert, author of Plug-in Hybrids: The Cars that will Recharge America will be addressing the Reno Mensa chapter at the Sliver Legacy. The ATC has been invited to display a few cars and will likely receive discount tickets to the talk. Details will follow as they become available. <<http://tinyurl.com/69n7u7>>.

MEETING REVIEW ###
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Bob gave a presentation on Vehicle-to-Grid (V2G) technology. To learn more please visit these websites:

<http://www.udel.edu/V2G>

<http://www.acpropulsion.com/technology/v2g.htm>

LISTSERVS - GET INFORMED VIA EMAIL ###
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Alternative Transportation Club (ATC) general listserv -
<<http://tinyurl.com/3xs4jk>>.

Electric Vehicle Discussion List, founded in 1991 -

<<http://www.evdl.org/>>. [Ed'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.]

WATT'S UP? ###
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OIL & EV SCAMS - THAT'S WATT!
by Bob Tregilus, ATC Chair

Soaring gas prices combined with an historic presidential election are merging into a perfect storm of misinformation. This storm of scams, deceptions, and manufactured uncertainties has created the pluperfect opportunity for talk-show pundits, hacks, and sock-jocks to bash various governmental policies, political parties, as well as each other; but more importantly, scam artists smell blood in the streets and are swarming to the party like sharks to a feeding frenzy.

Whether you call it a confidence game, con, scam, swindle, grift, bunko, flim-flam, stratagem, get-rich-quick scheme: "There's a sucker born every minute," or so says the quote often attributed - wrongly - to the famous circus entrepreneur, P.T. Barnum.¹

But before we examine miracle cars that run on water or the recent email announcement(s) that the "North American continent is awash in untapped oil reserves", let's first look briefly at the concept of critical thinking.

It's often difficult in our hyper-time intensive lives to stop and think critically about a given issue or proposition. Also, it's human nature to want to believe, and believing in something that we don't have all the facts about, because we may not have the time or training to gather and evaluate all of the relevant data, happens to all of us far more frequently than we'd like. Besides, spirituality would be impossible without faith and belief. But for the more banal aspects of life it would be preposterously complicated if for every task we had to first research all of the facts before proceeding - don't forget to read those instructions!

Imagine not only reading the instructions for that espresso machine you just bought but all of the Underwriter's Laboratory (UL) product safety test results as well. Or, how about reviewing all the research and testing done on that new medication your doctor prescribed? It's literal leap of faith every morning when we jump out of bed.

In contrast to belief and faith, however, we are thinking critically when we rely on reason rather than emotion; when we seek evidence, follow the evidence, and evaluate the evidence until we have little or no doubt about a given proposition.

At criticalthinking.org they state:

"Everyone thinks; it is our nature to do so. But much of our thinking, left to itself, is biased, distorted, partial, uninformed or down-right prejudiced. Yet the quality of our life and that of what we produce, make, or build depends precisely on the quality of our thought. Shoddy thinking is costly, both in money and in quality of life. Excellence in thought, however, must be systematically cultivated."

Another complementary form of critical thinking is logic: The art of debate and fallacies in logic. If you'd like to learn more there's a great website about logic and debate at this URL, <http://tinyurl.com/45gjl>. And there's an excellent weekly netcast called LSAT Logic in Everyday Life that you can listen to at this URL, <http://radiotpr.com/lsatpodcastfeed.xml>. Andrew Brody, of the Princeton Review, takes you on a weekly journey of the news headlines from the perspective of logic. You might be surprised to discover that professional journalists are not masters of critical thinking and logic, nor are your officemates at the water-cooler exercising rigorous logic when discussing the news.

No critical thinking tool kit is complete without Dr. Carl Sagan's "baloney detection kit". Sagan is that great popularizer of science you might remember from 1980 PBS television series Cosmos.² In one of his last books, The Demon-Haunted World: Science as a Candle in the Dark, (1997)³, Dr. Sagan discussed the "fine art of baloney detection" which is an expanded version of the scientific method.⁴ Professor Jonathan Wren, of the Department of Botany and Microbiology at the University of

Oklahoma, has kindly transcribed Sagan's chapter on baloney detection and posted it to this URL: <http://tinyurl.com/y29s4o>.

Finally, for all those emails that fill your inbox everyday, many of which include the line, "This is so amazing send it to everyone you know!" there's a couple of things you should check first. (Remember the tenants of critical thinking? "The quality of our life . . . depends precisely on the quality of our thought.")

I first checkout suspect send-it-to-everybody-in-my-addressbook emails at Snopes <http://www.snopes.com>. Just copy and paste the first couple of words from the email into the search box at the top of the page and presto! - you'll discover that Frank Zappa was not the son of the actor who played Mr. Greenjeans on Captain Kangaroo and that Bill Gates is not going to send you any money for forwarding an email.

And just because you don't find anything about your suspect email in the Snopes archive, (it may be due to the fact you aren't entering the right keywords to find it or it could be so new that it has not been evaluated yet), don't assume Snopes is the definitive last word on the veracity of emails. Check it out at <http://www.scambusters.org/> or <http://www.truthorfiction.com/search.htm> as well, or search around the 'net for alternative explanations. And while Wikipedia <<http://wikipedia.org>> is a wonderful resource, it's only a good starting point for your sleuthing. Given its open and anonymous editing policies, Wikipedia not an authoritative resource.

Have you seen this email yet: "Who Has The World's Most Oil?" (Shouldn't that be, Who has the Most Oil in the World?) In any case, the "most oil" email is an assemblage of information from various sources. It's about oil shale (unconventional oil reserves) in what's known as the Green River Formation running through Wyoming, Colorado, and Utah.^5 Another similar email trumpets the vast oil resources of the Bakken Formation (Montana, North Dakota, & Saskatchewan), which are conventional oil reserves.^6

Without going into great detail the "World's Most Oil" email is so new that Snopes has yet to post anything about it. I nosed around the internet a bit and discovered the source <<http://tinyurl.com/f6zbo>> & <<http://tinyurl.com/6gvh66>> of information that was lifted to create the email. It comes from an advertisement put together by an investment advisement firm that uses catch phrases like: "The best-kept secret on Wall Street!" Every time I read a phrase like that I can't help but think: "If it's so great why not keep it to yourself - mortgage the house, your family, your parent's house and invest?"

But wait! A lot of the "secrets" disclosed in the email are true. The Green River Formation is the largest known oil reserve in the world. That's right: Here in the good old US-of-A we have more oil than anywhere else in the world! But: squeezing the oil from the rocks is a whole other matter. As mentioned earlier this is an unconventional oil reserve. To morph into a conventional oil deposit it would require a couple million years of geologic pressure and heating. Oil companies have explored a number of methods for extracting the oil, but none have been economically feasible.

Enter Royal Dutch Shell and the "In Situ Conversion Process" or ICP. "In a nutshell, ICP works like this: Shell drills 1,800-foot wells and into them inserts heating rods that raise the temperature of the oil shale to 650 degrees Fahrenheit. To keep the oil from escaping into the ground water, the heater wells are ringed by freeze walls created by coolant piped deep into the ground; this freezes the rock and water on the perimeter of the drill site. Eventually the heat begins to transform the kerogen (the fossil fuel embedded in the shale) into oil and natural gas. After the natural gas is separated, the oil is piped to a refinery to be converted into gasoline and other products."^7

Shell claims they can get as much as a 3:1 energy return on the process. Super-heating and freezing the ground, however, is pretty energy intensive. As of this writing they are still two years out from a full-scale test aimed at proving they can accomplish this task without polluting groundwater.^8

So the moral of this dialectic is:

- a.) We are not going to run out of oil.
- b.) We have run out of cheap easily accessible oil.
- c.) Future oil fields will require ever increasing amounts of capital, resources, and energy to develop and operate.
- d.) There are no simple solutions - you can't just punch a few holes in the ground and a couple of months later gas prices drop to two bucks a gallon.
- e.) It takes a minimum of ten years (usually more) before an new oil field starts producing.
- f.) There are no easy solutions to the growing energy crisis.
- g.) And most importantly, the energy crisis is not the fault of any one interest group, political party, industry, company, government policy or regulation. Although the lack of a coherent long-term energy policy in the United States has certainly contributed to the crisis.

The energy crisis, rather, is the result of our lack of vision as a nation. Placing short-term gains over long-term needs. The denial that someday, as populations grew and petroleum resources waned, we'd need more than just hyper-subsidize cheap oil to power our world.

I started out this article by mentioning scams. I've been running into a bumper-crop of electric vehicle scams and what ATC member Bill Brinsmead describes as investor bait.

WATCH OUT! The sharks are feasting given the run-up in gas prices. I've seen some very professional looking websites advertising EVs, EV conversions, advance chemistry batteries such as Li-ion and LiFePO, and assorted EV parts that are nothing more than scams. So be diligent, persistent, and patient - filter out the trash from the facts - before you plunk down your hard earned cash!

Oh, and what about that water powered car I mentioned way back at the beginning of this article?

Sure it works: But follow this link: <<http://tinyurl.com/6mwkzx>> or see article number twenty-one in this eNewsletter.^9

Also, for more on scams and misinformation be sure to read articles number five and seventeen as well.

How's Zap!

Bob

Footnotes -

1.) <http://alt-usage-english.org/excerpts/fxtheres.html> (There were other webpages that cited differing as well as conflicting accounts of the quote's attribution. So it's probably safe to say Barnum never said it but who actually did seems open for debate.)

2.) <http://tinyurl.com/yauخته> (Link to Cosmos on DVD at Amazon.com.)

3.) <http://tinyurl.com/jucy9> (Link to Sagan's book at Amazon.com.)

4.) <http://tinyurl.com/6x89wr> (Link to an explanation of the scientific method.)

5.) These terms reference geologic formations which are rock assemblages of similar chemical composition and depositional age.

6.) Do to space considerations I won't discuss the Bakken Formation here. However, satisfy to say that the email quotes old and unpublished data as to the extent of the reserves. A recent evaluation of the deposit is posted at the oil drum.com at this URL: <http://www.theoil drum.com/node/3868>

7.) Jon Birger, Oil shale may finally have its moment, CNN Money.com, 11/1/07, <<http://tinyurl.com/ywczhp>>.

8.) Paul Foy, In Utah, an oil shale player says it's ready to go, Associated Press, 6/19/08, <<http://tinyurl.com/6pj5ed>>.

9.) To learn more about the problems with hydrogen you may want to review the Laws of Thermodynamics <<http://tinyurl.com/6c2e4c>> and the concept of standard enthalpy (heat) of formation as applied to hydrogen fuel-cells in EVs <<http://tinyurl.com/6nlfrm>>.

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### FEATURED ALTERNATIVE TRANSPORTATION WEBSITE ###  
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1) ELECTRIC AND HYBRID CARS

This is a great no-nonsense website that provides a lot of up-to-date links relevant to EVs and hybrids. In particular, the link provided below is a easy-on-the-eyes summary of all green transportation: EVs, hybrids, scooters, motorcycles and NEVs, on the market - and available - for purchase today.

Thanks to ATC Vice-chair, Chuck Swackhammer, for providing this great resource!

Follow the below URL to view this month's featured alternative transportation website:

<http://electricandhybridcars.com/index.php>

1a) FREE - EV CONVERSION WORKSHOP

"Could your car be converted to run on batteries instead of gas? Would it provide the speed and range you need? How hard is it to convert? What does it cost to convert and operate an electric car? These questions and others will be answered in a free one-day workshop sponsored by the Electric Auto Association."

WHEN: Sunday, September 7 from 10:00am - 5:00pm

WHERE: Hewlett Packard Bldg. #48, 19483 Pruneridge Ave., Cupertino, CA, Oak Room Auditorium.

INFO: Electro Automotive at 831-429-1989 or follow this link:

<http://www.electroauto.com/workshopEAA-08.shtml>

EVs IN THE NEWS ###
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2) PORTLAND CHARGES UP FOR PHEVS

"Portland General Electric has begun leading the charge for mass adoption of plug-in hybrid-electric cars in Oregon. The utility plans to install 12 electric-vehicle charging stations in Portland and Salem by September as part of a demonstration project to develop the transportation infrastructure needed to support electric vehicles. The project will also help the utility anticipate the demand plug-in cars might place on the region's electric grid and design smart grid systems to help even out variability in wind and solar resources."

[Contributed by Neal Peters.]

Full article here:

<http://tinyurl.com/5uwdr7>

3) PHEVS 2008: WHAT ROLE FOR WASHINGTON?

"Oil prices are at record highs. The overwhelming dependence of our cars and trucks on oil strains family budgets, threatens our national security and contributes to global warming. Plug-in electric vehicles have the potential to significantly reduce the United States' dependence on oil. Yet can this potential be realized? If so, how? Is there a national interest in putting millions of plug-in vehicles on the road soon? How should policymakers in Washington, D.C., respond?"

[Ed's Note: This was an event held in DC from June 11th to the 12th. There's lots of great information and videos at the event website.]

Event website:

<http://tinyurl.com/5qgjzo>

4) GAZA, EVS OFFER WAY AROUND ISRAEL'S BLOCKADE

"While gas prices of \$4 per gallon may feel steep to Americans, Palestinian drivers in the Gaza Strip have faced highs of \$50 per gallon.

"The people here cannot afford that kind of money, especially now," says Waseem Khazendar, who along with Fayaz Anan has tackled the problem by building an electric car. Their prototype - a Peugeot that runs for 110 miles on a single charge from a standard electrical outlet - costs just \$1.50 a charge, Mr. Anan says. "We are trying to help everyone here get through a difficult period."

Full article here:

<http://tinyurl.com/5o6n9f>

5) WATER ALARM: WHACKY MEDIA CRITICISM OF PHEVS

A couple of months ago you may have heard of an article in Popular Mechanics trumpeting a research paper about PHEVs and how they could drain the U.S. water supply. The PM article states that according to researcher Dr. Carey King, an

economic geologist at the University of Texas at Austin, a PHEV would require a whopping 318 gallons of water to travel 30 miles - that's gallons of cooling water used at the electric generating facility.

This was a headline designed to sell magazines.

Felix Kramer of the California Cars Initiative (CalCars) posted a rebuttal to the PM article that also talks about similar media misinformation on alternative transportation options.

Also, Dr. King noted how his research paper had been mis-characterized in the media as well.

[Ed's note: For more on scams and misinformation campaigns please see the "Watt's Up?" column in this newsletter.]

Full articles here:

CalCars rebuttal:

<http://tinyurl.com/627wcn>

Dr. Carey King's blog:

<http://tinyurl.com/67c42j>

6) SHAI AGASSI PITCHES \$100 BILLION PLAN

"On 3 July 2007 I set off on my first journey around the world with a solar powered vehicle. Admittedly, as a regular citizen I cannot change the world but I can demonstrate to the world just how dire the global climate situation has become and how many sophisticated solutions to lower the greenhouse gases already exist, which bring with them many other advantages. So that we can have a better world and a more secure future. The solar taxi should rekindle hope and a zest for life, set an example to counteract resignation and stimulate reflection. And show that every single one of us can take a step towards preserving our planet."

[Contributed by Chuck Swackhammer.]

Full article here:

<http://tinyurl.com/587etj>

7) VW JUMPS ON THE BANDWAGON

"During a presentation of Volkswagen's new electric car program entitled "Fleet Test: Electric Drive Vehicles," Winterkorn explained that TwinDrive can power a vehicle solely on electricity for up to 50 kilometers (31 miles) and can be plugged into to existing power outlets for recharging. Much like GM's system in development for the Volt, the car's lithium ion battery power supply is supplemented by a traditional gasoline engine for long distance travel."

[Contributed by Lisa Braithwaite of <http://austinenergy.com>.]

Full article here:

<http://tinyurl.com/5hypld>

8) RENAULT/NISSAN LAUNCH EVS IN PORTUGAL, 2011

"Renault and Nissan Motor Co., said Wednesday that Portugal will be third country in which the two auto makers jointly launch electric cars. Under an agreement reached between the French car maker, its Japanese partner and the Portuguese government, Nissan and Renault will roll out a zero-emission vehicle in the country on the Iberian Peninsula in 2011."

Full article here:
<http://tinyurl.com/5jgulg>

9) CHRYSLER ENVISIONS EV ENVI WITHIN FIVE YEARS

"Chrysler has announced it's planning to launch all-electric vehicles within five years. The new line created last September. Its vehicles are slated to operate on battery power alone for about 40 miles, according to Chrysler."

Full article here:
<http://tinyurl.com/66d8qn>

10) BMW CONSIDERING ALL-ELECTRIC CAR FOR THE U.S.?

"BMW's U.S. success means that come 2012, it will be considered a large vehicle manufacturer here in the States. In preparation for that, BMW will decide this year on whether to make "an ecologically-compatible car for the U.S. market," most likely to help the automaker meet more stringent CAFE standards that are forthcoming."

Full article here:
<http://tinyurl.com/ysgzz6>

11) CHICKAMAUGA TEEN BUILDS ELECTRIC CAR

"Seventeen-year-old Matt Glenfield has found a way to beat high gas prices. The Chickamauga teen built an electric car using batteries from a golf cart."

Full article here:
<http://tinyurl.com/5mkyt5>

EV VIDEO CLIPS ###
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12) NOZZLE-RAGE

Very funny video, and true! Well sort of. ;>)
[Contributed by Neal Peters.]

Video here:
<http://www.osampump.com/>

13) WHO WILL REVIVE THE ELECTRIC CAR?

"This week General Motors announced it will close four of its pickup and SUV plants and may end production of the Hummer. The news comes as gas tops four dollars and thirty cents a gallon in the Bay Area. As drivers increasingly look toward hybrids and mass transit for some relief, has the time finally come for one car technology that needs no gasoline at all? Amy Standen reports."
[Contributed by Gary Moon.]

Video here:
<http://tinyurl.com/6lrrqfj>

14) CHEVROLET VOLT

"Interview with Tony Posawatz , GM's Vehicle Line Director for the Chevrolet Volt and GM's E-flex drive system, at the 2008 Detroit Auto Show."

Video here:
<http://evtransportal.com/gmvolt.html>

Detailed article about the GM Volt here:
<http://tinyurl.com/5trrsww>

15) BMW'S ELECTRIC CAR

"BMW to produce an electric Mini-Cooper!"

Video here:
<http://tinyurl.com/6attfp>

ENERGY NEWS ###
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16) CHALLENGING COAL REDUX

"Coal is a dark and dirty source of energy -- it's also the source of about 80 percent of the world's greenhouse gas emissions.

"So why is the coal industry pushing to build over 100 new coal-fired power plants across America? They're rushing construction before Congress finally sets caps on greenhouse gases. But activists are fighting back."

Audio story here:
<http://tinyurl.com/6lc82y>

17) Analysis of Oil Production in ANWR

[Editor's Note: Recently my inbox has been overflowing with emails declaring nearly

limitless oil reserves in the Arctic National Wildlife Refuge (ANWR). I'm providing the following link as it is dated May 2008 and is from the United States Energy Information Administration (EIA). It's the official EIA analysis of oil reserves in ANWR and what it will take to tap it.

Additionally, according to the EIA the United States consumed 20,687,000 barrels of oil per day in 2006 <<http://www.eia.doe.gov/basics/quickoil.html>>. The mean oil reserves in ANWR are estimated at 10.4 billion barrels. (That's if the entire region - offshore as well as state and native lands - were open to production.) And there's a 95% probability that 5.7 billion barrels can be recovered and a 5% probability that 16.0 billion barrels are recoverable.

If we take the mean of 10.4 billion barrels and divide that by the 2006 US consumption of 20.7 million barrels per day that equals 502.7 days worth of oil in ANWR - and that oil will be sold on the global market, not just the United States! Also, assuming there are no lawsuits and development begins immediately, it will take minimum of ten years before production begins.]

Full article here:
<http://tinyurl.com/5on25n>

18) CLIMATE CONCERNS HALT COAL PLANT

"The US state of Georgia has blocked construction of a new coal-fired power station because of concerns over its carbon dioxide emissions."

Full article here:
<http://tinyurl.com/5me9q6>

19) KILL-A-WHAT? WHAT'S THAT? NO DUDE, KILL-A-WATT

"A Kill-a-Watt is a meter that you can buy which will tell you how much power any particular appliance in your house is using. You can calculate how much money something costs you for a day, a week, or a year. It's cheap and simple. The only limitations are that it's 110 volts only, and 15 amps maximum.

"Guess what? My car's onboard charger draws 16 amps. The meter was very cheap so I plugged it in and babysat the affair until the bulk phase was over and the amps dropped off for the finishing phase. I didn't care if it melted down, I just didn't want to start a fire. The car has a bigger impact than I thought but it's still better than \$4.09/gallon."

Full article here:
<http://patriotfuel.blogspot.com>

20) TEXAS OILMAN T. BOONE PICKENS WANTS WIND

"Get ready, America, T. Boone Pickens is coming to your living room.

"The legendary Texas oilman, corporate raider, shareholder-rights crusader, philanthropist and deep-pocketed moneymen for conservative politicians and causes, wants to drive the USA's political and economic agenda."

[Contributed by Neal Peters.]

Full article here:
<http://tinyurl.com/6nm2wd>

21) TRUTH ABOUT WATER-POWERED CARS

"From a startup snagging headlines to DIYers posting plans, water-powered cars have been all over the Web recently—not to mention stuffing my email inbox. Yes, you can run your car on water. But . . ."

[Contributed by Neal Peters.]

Full article here:
<http://tinyurl.com/6mwkzx>

22) WHY OIL WHEN THERE'S WIND OFFSHORE?

"President George W. Bush looks out at the ocean and dreams of oil beneath the waves. Scientists at NASA's Jet Propulsion Laboratory (JPL) look at the ocean and understand how the winds that create those waves can help power the world - cleanly."

Full article here:
<http://tinyurl.com/6bmb1b>

CLASSIFIEDS ###
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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.

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WHO WE ARE, SUBMISSIONS, & LEGAL ###
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ELECTRIC AUTO ASSOCIATION (EAA)

The Alternative Transportation Club (ATC) is a chapter of the 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."

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.

Alternative Transportation Club, EAA officers are:

Bob Tregilus - Chair
Chuck Swackhammer - Vice Chair
Peter Fletcher - Treasurer
Aimee Deutschendorf - Secretary

SUBMISSIONS

Your article contributions and letters to the editor are welcome! Please submit original articles to Bob Tregilus: [atc\[AT\]electricnevada\[DOT\]org](mailto:atc@electricnevada.org). 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 [atc\[AT\]electricnevada\[DOT\]org](mailto:atc@electricnevada.org).

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