

ALTERNATIVE TRANSPORTATION NEWS (ATC eNEWS)

Volume 2, Number 3
June 4, 2008

Published roughly once a month
by the Alternative Transportation Club &
Electric Auto Association of Northern Nevada

On the web: <http://ElectricNevada.org>
#####

CONTENTS ###
#####

NEXT MEETING, JUNE 12 ###
(ATC elections coming in July!)

EVENTS CALENDAR

MEETING REVIEW

LISTSERVS - GET INFORMED VIA EMAIL

WATT'S UP? SCOOTERS, THAT'S WATT!

FEATURED WEBSITE

1.) SPIRIT OF DC: PHEV-3A TOUR OF AMERICA
(Coming to Reno soon!)

EVs IN THE NEWS

- 2) Triac Electric Car
- 3) First Drive: Nissan Altra EV
- 4) Chrysler, Daimler Lead the Way with EVs
- 5) Nissan to unveil all-electric concept
- 6) The Solar-Taxi World Tour
- 7) Tesla Motors Store Grand Opening Celebration
- 8) Toyota Will Offer a Plug-In Hybrid by 2010
- 9) Getting All the Carbon Out of Cars
- 10) BMW considering EVs for the U.S.?
- 11) Mass produced electric cars coming in 2008

EV VIDEO CLIPS

- 12) Car of the Future
- 13) Electric Cars & Lies
- 14) Blind Hit with Hybrid
- 15) An Aptera guided tour: the factory

ENERGY NEWS

- 16) Wind Turbine Explosion
- 17) The Clean Energy Scam
- 18) Trees in Your Tank?
- 19) EESTOR For Energy Storage Solutions

- 20) Toyota building \$192M battery plant
- 21) What's Really Pushing Gas Prices? Subsidies
- 22) Seven Questions: The New World Energy Order
- 23) A Model City - Portland, OR
- 24) Reprocessing would make Yucca Mt. moot

CLASSIFIEDS

WHO WE ARE, SUBMISSIONS, & LEGAL

#####

#####

#####

ATC eNews

#####

NEXT MEETING

Our next meeting will be held on Thursday, June 12th, at 5:30 p.m. at the Northwest Reno Library <<http://tinyurl.com/39whwa>>.

ATC chair, Bob Tregilus, will do a short presentation on Vehicle-to-Grid (V2G) technology. V2G is really exciting - find out how your car can earn you over \$3,000 per year just for being plugged-in and available to electric grid operators to provide storage, grid regulation, and to offset the high cost of spinning reserves! We will begin the nomination process for new officers and discuss future plans for the group.

Elections for club officers will be held during July's meeting (Thursday, July 24th at 5:30 p.m.). Mark your calendars! If you are interested in running for the position of Chair, Vice-chair, Secretary, or Treasurer please submit a brief discussion outlining your interest and vision for the club and submit it to Bob Tregilus at lakeport104@yahoo.com. All submissions will be posted on the website for members to review. Anonymous nominations are welcome as well. If you have any questions please contact Bob at 775 826-4514.

EVENTS CALENDAR

None at this time, however, 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. For additional information follow this link: <http://northernnevada.us.mensa.org/index_Page596.html>.

MEETING REVIEW

Chuck gave a presentation on current EV and battery developments.

LISTSERVS - GET INFORMED VIA EMAIL

Alternative Transportation Club (ATC) general listserv -
<<http://tinyurl.com/3xs4jk>>.

Electric Vehicle Discussion List, founded in 1991 -
<<http://lists.sjsu.edu/mailman/listinfo/ev>>. [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!]

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

As gas prices break through the \$4.00 mark, have you notice more scooters puttering around the Truckee Meadows? I sure have, only nearly everyone of them is a stinker. (Has a tailpipe.)

So if you're looking for something in an electric scooter, below are a few products to consider. I asked ATC co-chair, Chuck Swackhammer, to send me links to a couple of scooters he likes for me to report on. Please bare-in-mind that I've not tested any of these scooters or bikes, thus I'm relying on my experience as both a former professional bicycle and motorcycle mechanic as well as what I've been told by owners of these scooters and bikes.

First off lets look at the Evader -
<http://www.evadermotorsports.com>

These scooters look great! There are two models to choose from: EV Rally & EV 1000. There appears to be no difference in the two model's technical specifications. The only major difference is the EV Rally has a twin headlight while the EV 1000 has a single. There are some cosmetic differences as well. The 1000 looks a bit more aerodynamic.

Hype-drive-

Both models are offered in four colors: red, black, blue, and yellow. And both models feature a "hyper-drive" button that boosts power for passing and hill climbing. Of course, using the hyper-drive often will decrease your range.

Speed -

Top speed is 30 miles an hour for the Evader. In Nevada, if the speed does not exceed 30 miles an hour you don't need a class "M" license, but you still need a driver's license. No helmet is require but is strongly suggested! Also, all motorized street vehicles require all applicable safety devices such as mirrors, lights, and horns. For more information visit the Nevada DMV website: <<http://www.dmvnv.com/motorcycle.htm>>.

Hub Motor-

The Evader's motor is located in the rear hub. This is the most efficient configuration for an electric scooter or bike as there is no energy loss realized from the weight and friction of chains and gears or other methods of driving a scooter. Simpler too, requiring little to no maintenance and fewer replacement parts as well. The system is 48vdc and a 1000 watts.

Batteries & charging-

The 48vdc is supplied by four 12vdc sealed lead acid gel batteries. Often this type of battery is referred to as a "gel-cell" and given they are sealed they require no

maintenance. The batteries require 2-6 hours to recharge depending on depth of discharge (DOD).

Range & battery life-

Note: it is extremely important to recognize that any lead-acid battery's life will be greatly shorten if you regularly discharge it below 50% DOD. This is why you need to understand that the rated range of electric vehicles that are powered by lead-acid batteries is often very misleading. For example, the "max range" on the Evader scooters is listed as 30 miles. That is likely discharging the batteries to an unhealthy DOD. In reality the scooter's range is likely around 20 miles and less than 15 miles in the winter if you wish to maximize battery life. The reason the range is shorter in the winter is because lead-acid batteries loose capacity to discharge as the temperature gets colder. Thus, I often say that if a manufacturer claims a range of, say, 10 miles it's actually 2/3rds of that to preserve battery life, and half of that in the winter, thus 6.5 miles on a warm day and 4-5 miles on a cold day.

The Evaders sell for \$2,499.00 MSRP. A quick look on the web reveals they are selling for \$2,399.00 - \$2,999.00.

The second set of scooters I'll point you to is EVC -
<http://www.evcsusa.com>

Chuck sent me the above link - and these look like a really great product - but they are not available as of this writing. So, I'll let you review their website and move on to the next offering (which is available now from a local dealer). Follow the above link to check out the EVC products.

The third scooter we'll look at is the Zapino from Zapworld -
<http://tinyurl.com/3dvcwz> (Available now from a local dealer. See below for details.)

The Zapino is a full size scooter. It comes in five great colors and should be perfect for commuting around the Truckee Meadows. These scooters have a 3000 watt hub motor (that's 2000 watts more than the Evader discussed above). They also operate on 60vdc which is higher than the Evader. Generally, higher voltage means better efficiently in the EV world. The Zapino's top speed is 30mph, but they have a turbo switch like the Evader does for that extra boost when you need it. They come equipped, I'm told, with a silicone battery pack. I know nothing about this battery technology, but I'm told, they can handle a deeper DOD than lead-acid batteries so presumably you can go further and won't have to replace the batteries as often as you would if they were lead.

You might want to look up silicone batteries on the web (I just did and there's a lot of information both supporting and bashing the technology) and check it out for yourself.

To get an up close and personal look - and even test drive a Zapino! - contact Keith Spradling at 775.741.4652 or visit him at Keith's Kars, 13203 South Virginia St (that's way down there, a bit past the Tamarack Casino). Keith is a great guy and would be happy to answer any questions you may have. The MSRP for the Zapino is \$3495.00 but Keith tells me he will sell them to you for \$2995.00. Likely, though, the price will be going up soon because, as you can imagine, the demand right now is very high!

A fourth scooter worth looking at is the eGo -
<http://egovehicles.com/products/north-america>

Two ATC club members own these and say they are great. These scooters are small and lite, just a step above a bike or moped. They sell for around \$1,300.00 and they travel at ~20mph and have a range of 20 miles.

Lastly, I'll suggest two EV bicycles: Opti Bike <<http://www.optibike.com>> & Schwinn <<http://tinyurl.com/yrplp5>>.

The Opti Bike is top of the line and then some. They are awesome and have a price that is awesome as well. At \$6,000 plus it's hard to spend more on a bike. I know of one owner locally and he travels from Caughlin Ranch area to UNR everyday. The electric assist helps make the commute a breeze especially on the return trip up Mt. Rose highway to Caughlin Ranch. If you can afford one of these gems don't hesitate for a minute. You won't be sorry. Also, the Opti Bike is powered by high tech Ni-MH batteries. Ni-MH (nickel metal hydride) batteries are a proven technology that has a long track record in EVs. They don't suffer from all the problems that lead batteries do. They are lighter can be discharged almost all the way without damage. And they last a really long time!

I know little about the Schwinn. I saw one at Earth Day and it looks real nice. Back in the 1970s when I worked in the bicycle business, Schwinn products were pricey, low tech, and generally to be avoided. But these days they are up-to-date reasonably priced products from a long standing name in the industry. Locally, you can checkout the Schwinn electric line of bikes at Bicycle Bananas, 2005 Sierra Highlands Dr. #115 in Reno or call 775.747.1413 for more information <<http://www.bicyclebananas.com>> ask for Dan.

In conclusion an EV scooter is really cool. For short trips to the market, work, school, or friend's house they can't be beat. Just be sure to keep them charged and you'll get years of trouble free commuting. Also, while most scooters still feature lead-acid batteries the latest high-tech lithium ion (Li-ion) batteries are coming down in price. By the time you wear out the lead in your new scooter Li-ion should be a viable replacement option. Li-ion batteries are many times lighter and can double or even triple your range. If you are handy there are Li-ion packs available from China on eBay right now that are reasonably priced and capable of boasting your scooter's range to 50 miles or more!

If you have general questions about scooters please feel free to contact ATC co-chair, Chuck Swackhammer. He has been researching, buying, and testing electric scooters for a long time now and is quite knowledgeable. Send him an email at [sierrasailor53\[AT\]aol.com](mailto:sierrasailor53[AT]aol.com).

FEATURED ALTERNATIVE TRANSPORTATION WEBSITE

1) SPIRIT OF DC: PHEV3A TOUR OF AMERICA

"The Spirit of DC is a Plug-in Hybrid Electric Vehicle that will travel all around America (PHEV3A). We invite you to join us in our effort to teach the public about plug-in vehicles and the power of electricity in automobile transportation. Our first objective is to visit each state and demonstrate in a "show & tell" fashion the practicality of PHEVs. We expect the Spirit of DC to reach over 10,201 miles in its first 101 days while attempting to average 101 miles per gallon by using plug-in electricity as much as possible.

"The father of the modern Plug-In Hybrid, University of California at Davis Professor Andy Frank, said, "A long electric range PHEV is first an EV," and we consider our PHEV the "Spirit of DC" in the same way; it is first an electric vehicle. We believe PHEVs provide an alternative to using gasoline at \$4, \$5, \$6 ... a gallon, by providing the choice of plugging-in at 60, 70, 80 cents worth of electrically for gasoline gallon equivalent (GGE)! In brief, it's about freedom of choice!"

The Spirit of DC will be coming to Reno later this summer! Details will follow as they become available. The car is being piloted by EVJerry Asher (Electric Auto Association

board member) who was in town a few months back to demonstrate a similar car. Follow this link to view a nine minute video featuring of Jerry's first Reno visit (produced and posted by ATC Treasurer, Peter Fletcher): <<http://www.youtube.com/watch?v=9aTRJnfwJL0>>.

So prepare for EVJerry's next visit by checking out the Spirit of DC website now!

Follow this URL to view their website:
<http://www.spiritofdc.com>

EVs IN THE NEWS

2) TRIAC ELECTRIC CAR

"Finally, a modern freeway commuter that knows this is the 21st Century. With an 80mph top speed and 100-mile range, sustainable driving is a real possibility. On sale now for \$19,995."

Contributed by Kenneth Henry.

Details here:
<http://www.greenvehicles.com>

3) FIRST DRIVE: NISSAN ALTRA EV

"[R]ecently . . . we drove Nissan's Altra EV, the electric rendition of this automaker's all-new Japanese-market R'nessa station wagon, at Nissan's Tochigi test track in Japan. Overall performance was impressive. The Altra EV accelerated well, cornered confidently, and in general seamlessly performed at a level completely consistent with the needs of the typical minivan owner. It was comfortable to drive; the mid-section bucket seats in this four-passenger EV offered plenty of room; and there was more than adequate space out back for luggage and such gear."

Contributed by Chris Bulen

Full article here:
<http://tinyurl.com/65newk>

4) CHRYSLER, DAIMLER LEAD THE WAY WITH EVs

"Thanks to a change in regulations in California and several other states, a new breed of sub-1,500-lb cars is changing the EV landscape. Increasingly, vehicles in this new category are weighing in at under 1,500 lbs and measuring less than eight ft long. They travel at speeds below 35 mph and need frequent, six-hour recharges. And they're carving out their own niche."

Contributed by Kevin Bloomgren.

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

5) NISSAN TO UNVEIL ALL-ELECTRIC CONCEPT

"All-electric vehicles are on their way, and Nissan plans to be a player with an all-electric vehicle on the market in Japan and the U.S. by 2010 for fleet customers and 2012 for everyone else. While the automaker has been testing a system that uses a lithium-ion battery pack in its boxy Cube runabout (above), it's not known if the Cube will get the electric drivetrain when it goes on sale in the U.S. Regardless, Nissan plans to preview its electric intentions in two weeks at the 2008 New York Auto Show with an all-electric concept car."

Contributed by Mike Galeoto.

Full article here:

<http://tinyurl.com/5uhm3n>

6) THE SOLAR-TAXI WORLD TOUR

"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 Thomas Dobbert.

Full article here:

<http://www.solartaxi.com>

7) TESLA MOTORS STORE GRAND OPENING CELEBRATION

"On Thursday, May 1, 2008 between 6:00pm and midnight Tesla Motors celebrated the Grand Opening of their Flagship Tesla Store located at 11163 Santa Monica Boulevard, Los Angeles, CA. Wow! Amazing cars, great Tesla Flagship Store Grand Opening, impressive test rides, beautiful women, great Tesla night!"

[Editor's note: Lots of great pictures and videos! a must see.]

Full article here:

<http://tinyurl.com/41fqld>

8) TOYOTA WILL OFFER A PLUG-IN HYBRID BY 2010

"DETROIT – The Toyota Motor Corporation, which leads the world's automakers in sales of hybrid-electric vehicles, announced Sunday night that it would build its first plug-in hybrid by 2010."

Full article here:

<http://nytimes.com/2008/01/14/business/14plug.html>

9) GETTING ALL THE CARBON OUT OF CARS

"Plug-in hybrid cars, once the domain of tech enthusiasts and tinkerers, just got a big boost toward the mainstream from the State of California.

"But the latest move by the state's regulators to push plug-in hybrids into the market also highlights the difficulty of taking all of the carbon out of cars."

Full article here:

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

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."

Contributed by Mike Galeoto.

Full article here:

<http://tinyurl.com/ysgz6>

11) MASS PRODUCED ELECTRIC CARS COMING IN 2008

"Mass produced electric cars could soon be a reality if a company called Think Global has it's way. The company is planning to launch it's two-seater EV (Electric Vehicle) named Think City in the US by 2008. The mini car uses only battery power as its energy source and produces zero emissions. Vehicles that run on electricity have no tailpipe emissions. EVs have lower "fuel" and maintenance costs than gasoline-powered vehicles. The cost of an equivalent amount of fuel for EVs costs less than the price of gasoline. Also, maintenance for EVs is less—EVs have fewer moving parts to service and replace, although the batteries must be replaced every three to six years. The Think City is about 2 feet shorter than a Mini Cooper, though a bit taller. The car goes over 110 miles on a single charge and the battery can be charged using the electrical outlet at home. Top speed is currently capped at 62 mph."

Full article here:

<http://hybridautoinfo.com/electric/thinkev/>

EV VIDEO CLIPS

12) CAR OF THE FUTURE

"Projections suggest that by 2050 there will be two billion vehicles on the world's roads, two and a half times as many as there are today. The "Car Talk" duo, brothers Tom and Ray Magliozzi, hit the road in search of the car of the future."

Contributed by Neal Peters.

Video here:

<http://www.pbs.org/wgbh/nova/car/program.html>

13) ZAPROOT - ELECTRIC CARS & LIES

"WIRED Magazine takes the spark out of the Zap Corporation and the EPA bans the toxic pesticide Carbofuran."

Contributed by Neal Peters.

[Editor's note: Zaproot videos from viropop are fun, two to three minute videos on environmental news. Guys - you'll like the hostess! ;>)]

Video here:

http://www.viropop.com/zaproot/episode/ZPR_20080423

14) ZAPROOT - BLIND HIT WITH HYBRID

"Blind people have introduced a bill that will require hybrids to make a noise while in electric mode, Patagonia embraces transparency in manufacturing, and we look at some Damn Good Designs, ZapRoot, helping you go green."

Video here:

http://www.viropop.com/zaproot/episode/ZPR_20080430

15) AN APTERA GUIDED TOUR: THE FACTORY

"Want to see behind the scenes at Aptera? Here's your chance to see our current factory, the office, and some of the people behind the Typ-1. If you want to see more, check out our Flickr account for some pictures:

<<http://www.flickr.com/photos/aptera/sets/72157604810632552/>>"

Video here:

http://www.youtube.com/watch?v=_Ogy6_KHE4A

ENERGY NEWS

16) WIND TURBINE EXPLOSION

"Run away windmill collapses during a storm in Denmark."

Contributed by Jonathan Gould.

Video here:

<http://www.youtube.com/watch?v=ICnq4oHxcrk>

17) THE CLEAN ENERGY SCAM

"From his Cessna a mile above the southern Amazon, John Carter looks down on the destruction of the world's greatest ecological jewel. He watches men converting rain forest into cattle pastures and soybean fields with bulldozers and chains. He sees fires wiping out such gigantic swaths of jungle that scientists now debate the "savannization" of the Amazon."

Contributed by Glee M Willis.

Full article here:

<http://tinyurl.com/2w84uj>

18) TREES IN YOUR TANK? THE FUTURE OF GREEN GAS

"Hydrogen, ethanol and even compressed air all have the shrink-wrapped sheen of the bright, green future. But gasoline? At \$1 per gallon? "

Full article here:

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

19) EESTOR FOR ENERGY STORAGE SOLUTIONS

"Lockheed Martin has signed an exclusive international rights agreement to integrate and market Electrical Energy Storage Units (EESU) from EESor for military and homeland security applications. Specific terms of the agreement were not disclosed. EESor, based in Cedar Park, TX, is developing a ceramic battery chemistry that could provide 10 times the energy density of lead acid batteries at 1/10th the weight and volume."

Full article here:

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

20) TOYOTA BUILDING \$192M BATTERY PLANT

"The plant will produce nickel-metal hydride batteries, now in the company's hit Prius hybrid. The Nikkei, Japan's top business daily, reported Friday that Toyota was building another plant in Japan to make lithium-ion batteries, set to be running by 2010, for future ecological cars. Nolasco said no decision has been made on such a plant."

Full article here:

<http://tinyurl.com/4l3eag>

21) WHAT'S REALLY PUSHING GAS PRICES? SUBSIDIES

"Solar power is often offered as one of the most promising forms of renewable energy. While the public often focuses its attention on solar photovoltaics -- the solar panels that change solar energy directly into electricity, as in a pocket calculator -- solar thermal technologies are making great strides. In its simplest forms, solar thermal techniques can heat water for a swimming pool or a shower. High performance, high temperature solar thermal devices can be used to drive a turbine and generate electricity. We'll get an update on where the technology -- and the industry -- stands. How effective can solar power be, and how close is the solar power industry to being able to deliver on the promise of the technology?"

Full article here:

<http://tinyurl.com/4nefue>

22) SEVEN QUESTIONS: THE NEW WORLD ENERGY ORDER

"Why are oil prices soaring so high, and will they ever return to Earth? Fatih Birol, chief economist at the International Energy Agency in Paris, explains why peak oil is real, why biofuels are indispensable, and how China determines what you pay at the pump."

Full article here:
http://www.foreignpolicy.com/story/cms.php?story_id=4326

23) A MODEL CITY - PORTLAND, OR

"Many environmentalists call Portland, Oregon - nirvana. The city is on track to meet the Kyoto Protocols, has a land use policy that stops sprawl, miles of bike lanes and even has a plan for Peak Oil."

Audio report here:
<http://www.earthbeatradio.org/2008/04/>

24) REPROCESSING WOULD MAKE YUCCA MT. MOOT

"To date Nevada has successfully kept the nuclear waste out of Yucca Mountain. That may end with the election of a new president. Sen. John McCain is not opposed to Yucca Mountain provided that all the regulations are met and due process occurs. Sen. Barack Obama says he is against storing waste at Yucca Mountain, but he also supports nuclear power as a clean alternative to coal-fired plants."
Contributed by the author, Dr. John Scire.

Full article here:
<http://tinyurl.com/56v29f>

CLASSIFIEDS

Brand New - AXE Programmable Controller for Series Wound or Permanent Magnet Electric Motors. This is a model AXE-4844 for 24-48 volt systems and 400 amps max current. Details here <http://www.alltraxinc.com/Products_AXE.html>. \$350.00 warranty is still good for another 1.5 years. Call Bob 826-4514.

#####

#####

WHO WE ARE, SUBMISSIONS, & LEGAL

#####

###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 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. 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).

LEGAL

The content of this eNewsletter is licensed under Creative Commons Attribution 3.0 License. You may share, copy, distribute, adapt, and transmit this work so long as you retain the original attributions. Any adaptations or changes to the original content of this eNewsletter must be annotated with the new author's name and email contact. <<http://creativecommons.org/licenses/by/3.0/>>.

TO UNSUBSCRIBE

If you are receiving this eNewsletter in error, or wish to be removed from the ATC email list, simply hit reply and ask!

.
.
=D----- (_ _ _ _)
. 'O' - - - 'O'
#####