



## Tom's Tidbits

### Welcome to 2009!

There's good reason to be hopeful in 2009. The Bush administration is stumbling to an end, but there's still an uphill battle before things start getting better. Tom Dwyer Automotive Services can be your best ally in this crumbling economy by stretching the life of your valuable vehicle. Our clients know that we deliver honest, comprehensive, quality, no-B.S service that lets them get the most from their transportation dollars. We'll help you plan maintenance and repairs to fit your budget and schedule, using features like our 90-day-same-as-cash financing or our free shuttle service.

Our Service Advisors aren't paid sales commission; you can trust their recommendations. Our ASE Blue Seal of Excellence technicians service your vehicle right the first time, and we offer an 18 month, 18,000 mile warranty to back everything up. Tom Dwyer Automotive Services takes care of its clients and staff, supplies quality products and services, and supports our community. Make a resolution to get together with us in the New Year; we'll help preserve your vehicle and your cash!

Make a great day,

## Electric Vehicle Extravaganza

Walkin' Through a Wattage Wonderland...



lightning\_car.jpg

Electric cars. We've heard all about them, but where are they? They're like personal jet packs- we've been promised they're coming for years, but they never seem to get here. Why aren't we driving clean, efficient, safe, comfortable cars that don't get our people killed trying to fuel them? Well, our answer here at Tom Dwyer Automotive is... we don't actually know. It's probably got something to do with corporate greed and the oil companies, but then it could also be about technical hurdles and customer receptiveness. However, we aren't going to spend this newsletter delving into the deeper causes of why you don't have your own personal plug-in. Instead we're going to give you the opportunity for a little future-tech window shopping, a look through a gallery of the electric cars that are available, on the way, or too wild to ever be produced. You can't buy them now, but then again, no one can buy anything these days. Enjoy!



aptera1.jpg



aptera2.jpg



aptera3.jpg

Although slightly less than originally calculated, this three-wheeled hybrid gets 230 miles per gallon while humming along at 55 miles per hour. The production of the prototype is a hopeful first step for [Aptera](#), whose company, Accelerated Composites (aka Aptera Motors), is making tentative plans to sell it for about \$20,000 apiece. Developed from the get-go as an electric vehicle, the Aptera's body styling, interior design and engineering all play into maximizing efficiency with the lightweight composite shell. Price for all-electric version: \$26,900, and for the plug-in hybrid: \$29,900. The Aptera is currently only being sold in California, although plans to expand are in the works.



dynasty2.jpg



dynasty3.jpg



dynasty4.jpg



dynasty1.jpg

Dynasty Electric Vehicle Limited designs, manufacturer and markets zero emission, electric Low Speed Vehicles (LSV's) for urban, recreational and light commercial markets such as planned and gated communities, destination resorts, industrial complexes and universities.



ecooter-19.jpg

ecooter-2.jpg

ecooter-6.jpg

The [Ecooter](#) is a four-wheel transporter designed for two people, the driver and a passenger behind. It is only a little over 3' wide and about 8' long. The compact design makes it very nimble in confined city areas and solves parking problems. The battery-powered vehicle consumes only a third of the power used by traditional cars, and is expected to improve the energy usage in the city. It is also anticipated to bring new business opportunities into Taiwan's automotive industry.



ev14.jpg



ev1-1.jpg



ev12.jpg



ev13.jpg

If you haven't seen it, the documentary "Who Killed the Electric Car?" tells the story of the now legendary EV1 (above), a work of engineering genius and (at the time) the only mass produced electric vehicle to grace our roads. The car was only leased to the users, not sold. It was popular, functional, and efficient, so what happened to it? The only obvious thing... GM confiscated all the cars from the lessees, put them in a car crusher, and ground them into small pieces of scrap metal. See all about it.



lightning4.jpg



lightning1.jpg



lightning2.jpg



lightning3.jpg

The Lightening Car Company develops high performance electric sports car at its Peterborough location. The company's first production car, the Lightening GT, went on sale in 2008. The vehicle features all wheel drive, can get 250 miles per charge and has a top speed of 150mph. The company is currently taking deposits on the Lightening which will be delivered in 2009.



f3dm1.jpg



f3dm2.jpg



f3dm3.jpg



f3dm4.jpg



f3dm5.jpg

BYD (Build Your Dream) Automotive is producing the F3DM in China. It has the distinction of being the first mass-produced plug-in hybrid in the world, well ahead of Toyota's and Chevy's target date of 2010. It has a 60-mile range and plugs into a standard wall outlet, and its 1-liter gas engine kicks in when the charge is gone. It also has a particular link to Portland, as our mayor and congressional delegation have met with BYD in China to try to get them to open a production facility in Oregon.



myers\_8.jpg



myers2.jpg



myers7.jpg



myers4.jpg



myers1.jpg



myers3.jpg

Myers Motors produces this all-electric (110 volt outlet charging), highway speed (76 mph), lithium battery powered vehicle. Its cost (\$29,995) means it is primarily targeted to early adapters and those who just really hate their daily fuel costs supporting oil nations' autocrats and dictators who are bleeding the American economy at the rate of \$1 billion per day.



nice5.jpg



nice2.jpg



nice3.jpg



nice1.jpg

The NICE Car Company was founded in 2005 in London. The young company has already begun distributing the Mega City, an electric city car that was developed by Aixam-Mega. NICE is also a distributor for Vectrix, Mega Multi-trucks and electric scooters by e-max and Oxygen.



nissanpeugot4.jpg



nissanpeugot3.jpg



nissanpeugot1.jpg



nissanpeugot2.jpg

Nissan is aiming to launch an electric car in the Japanese and US market by 2010. Nissan aims to offer their electric cars globally by 2012, in their long term plan. In this world of rising gas prices and pollution, Nissan Electric Cars would also be able to meet the stricter fuel-economy standards in developed nations through this initiative. Nissan has plans to develop subcompact electric cars powered by self-developed lithium-ion batteries. With this Nissan has now become the first Japanese automaker to announce their plans to develop and sell mass market, all-electric vehicles globally. This would put them in direct competition with domestic rivals Honda and Toyota both of which are already selling hybrid cars in Japan and USA.



peucitmit2.jpg



peucitmit1.jpg



peucitmit4.jpg



peucitmit3.jpg

Peugeot-Citroen is teaming up with Mitsubishi to create the i MiEV pictured above, but that vehicle isn't even available here. So, it remains to be seen what exactly the Franco-Japanese alliance is attempting to engineer. Mitsubishi will be sharing all sorts of technology, like information on how to better prevent overheating batteries and how to better convert electric juice to drive power, as well as supplying lithium-ion batteries.



rev5.jpg



rev1.jpg



rev4.jpg



rev3.jpg

G-Wiz, from India's REVA, is England's most popular electric car. The automaker has produced more electric cars than any other company and sales continue to increase. The G-Wiz is a 3 door hatchback that can accommodate 2 adults and 2 children. The vehicle's top speed is 45mph and has a range of 50 miles. The vehicle may be imported to the U.S., where it can be used as a Neighborhood Electric Vehicle. The company plans to offer models with increased range, speed and acceleration in 2008.



phoenix5.jpg



phoenix1.jpg



phoenix2.jpg



phoenix3.jpg



phoenix4.jpg

Phoenix Motorcars manufactures zero-emission, freeway-speed, all-electric vehicles. It is an early leader in the mass production of full-function, green electric trucks and sport utility vehicles (SUVs) for commercial fleet and consumer use. Based in Ontario, California, Phoenix Motorcars uses the revolutionary lithium titanate battery solution, a non-toxic, all-battery pack that eliminates noise and toxic vehicle emissions that contribute to air pollution.



squba-1.jpg



squba2.jpg

That picture of the car underwater? Not special effects. The Rinspeed sQuba can actually maneuver underwater using special jets. Because it is a convertible the passengers do have to wear scuba equipment, but when you're buying a car like this you're probably not concerned with practical details like that.



tango1.jpg



tango2.jpg



tango3.jpg

The Tango tandem two-seater can get you safely and comfortably to work and back without wasted space or fuel. The Tango is 6" narrower than many motorcycles, and takes less than half the space of the average car on the freeway, thereby doubling the capacity of existing freeway lanes. To fight pollution it is available as an electric zero-emission vehicle. As many as four Tangos can fit in one parallel parking space. Some long-standing concerns on the show-room floor are safety, performance, and handling. Because safety is such a concern for small cars in particular, the Tango is designed around a roll cage that meets or exceeds regulations designed to protect the occupants of cars crashing at over 200 mph. In addition, the extremely high strength-to-surface area ratio of a steel roll cage allows superb visibility from within the Tango. The Tango, being so narrow, would look to the layman's eye to be unstable. But in fact, the Tango has stability that exceeds that of most sport cars. The T600 has a 40- to 80-mile range when fully charged. Newer and more powerful nickel-metal hydride or lithium-ion batteries will bump the maximum range on a full charge to between 60 miles and 160 miles in the next couple of years. The Tango can be plugged into a home power outlet used and fully recharge in three hours.



thorr-electric-car-03.jpg

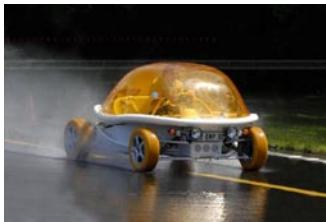


thorr-electric-car-02.jpg



thorr-electric-car-01.jpg

Evisol Makes drive trains, batteries, etc. for electric cars and boats. How better to demonstrate their skills than by making an electric car of their own? Meet the Thorr Electric Roadster, a proud relative of the classic Lotus Super 7 concept. Simplicity is the name of the game here. Low complexity, low weight, it is stripped of all the bells and whistles, except for the state of the art electric drive train. No ABS, power assisted braking, gearbox, power assisted steering, any form of sound absorption, not even a roof or a windshield.



zoop.jpg



zoop\_3.jpg

The Zooop is a high performance 150 kW three seat electric car that weighs just 1500 pounds and has a range of 280 miles. Strangely, the Zooop is not the product of an automotive manufacturer or automotive design house. It is the third fully-operative EV prototype produced by André Courrèges, one of the most influential designers of the swinging sixties, and most famous as the inventor of the miniskirt, trouser suit, the Moongirl look, and gogo boots. The new vehicle is a further development of the EXE's drive train in an entirely new chassis, with Lithium Polymer batteries that are lighter, have greater power density don't overheat, charge quicker and offer many more recharges. The new 70 A/hour 370 V Lithium Polymer batteries offer a range of 280 miles. The Zooop is now capable of 111 mph and offers performance to match most supercars.



venturi4.jpg



venturi2.jpg



venturi5.jpg



venturi 6.jpg



venturi3.jpg

Venturi is a French automaker that was founded in the mid 80's. The company started off producing high end sports cars under the names MVS, which in English stand for sport car manufacturer. In 2001 the manufacturer was bought by Gildo Pallanca who has since shifted the focus of the company to electric powered vehicles. The companies current models include the Eclectic and Astrolab. The low speed Eclectic is the first ever energy autonomous car, with solar panels, a wind charger and the ability to be plugged in. The Astrolab is a hybrid that runs on a plug in charge or solar energy.



tesla5.jpg



tesla1.jpg



tesla3.jpg



tesla4.jpg



tesla6.jpg

Tesla Motors was one of the first companies to push the electric car concept from a glorified golf cart toward something you actually might want to drive. Seeing these pictures of the car's development, "want to drive" might be a little weak. The Tesla Roadster is all electric, goes 0-60 in 3.9 seconds, goes 244 miles per charge, and is expected to go for \$109,000 when it goes into production in 2009.



think4.jpg



think1.jpg



think2.jpg



think3.jpg



think5.jpg

Think is an Aurskog, Norway electric car company founded in 1991. The company has had its ups and downs, with company ownership changing hands multiple times, but a revamped model of the Think City is currently in production. The vehicle will be available in the US by the second half of 2008 and features a 106 mile range and a top speed of 62mph.



volt4.jpg

volt1.jpg

volt2.jpg

volt3.jpg

The Chevrolet Volt is a plug-in series hybrid vehicle to be produced by Motors, and expected to be launched as a 2011 model with production currently slated to begin in 2010. Unlike current hybrids, the Volt is designed to operate its propulsion system entirely on electric power. With fully charged batteries, it will have a range of about 40 miles (64 km), more than the 33 miles of the average American commute. After 40 miles a small 4-cyl internal combustion engine kicks in to drive a 53 kW generator, extending the Volt's potential range to as much as 640 miles (1,030 km) on a single tank of fuel.



zenn3.jpg

zenn1.jpg

zenn 2.jpg

ZENN Motor Company is a Canadian based company that manufactures neighborhood electric vehicles. The company was found by a professional photographer named Ian Clifford who started the business after finding it difficult to purchase an electric vehicle in Canada. In 2001 the company teamed up with French automaker Microcar, utilizing the company's small diesel powered vehicles. ZENN is currently working with EEstor, a company that has developed a battery that gets 800 kilometers per charge.



zebra3.jpg

zebra6.jpg

zebra1.jpg

alias2.jpg

alias1.jpg

Zap is producer of the Xebra and the Alias. You may have seen the Xebra around town, there are a couple dealerships here in Portland, and we have an interview with a Xebra owner in this quarter's newsletter. The Alias is still a showroom car; you won't be able to purchase it unless you have time to wait and very deep pockets.



alsoran\_uno.jpg

alsoran\_cv1.jpg

alsoran\_dragster.jpg

alsoran\_e8f1.jpg

alsoran\_enertia.jpg

alsoran\_ferrari.jpg



alsoran\_fisker1.jpg

alsoran\_fisker2.jpg

alsoran\_gem.jpg

alsoran\_moovie.jpg

alsoran\_pyramid.jpg

alsoran\_subaru.jpg

alsoran\_tanghua.jpg



alsoran\_trex.jpg

alsoran\_wrightspeed.jpg

alsoran\_zeo1.jpg

alsoran\_zeo2.jpg

alsoran\_zeo3.jpg

Right now, electric cars are in somewhat of a "wild west" atmosphere, where small start-up companies and even individuals can develop the technology to compete with the large corporations. These nimble players, without the overhead, legacy costs, and corporate cultures may even be in a better position than the big guys. The result, for now at least, is that there are a huge number of competing designs, technologies, and paradigms for transportation of the future. Here's a gallery of some of the more interesting ideas, from garage shops to mega-corporations. Is your "car of the future" going to be like one of these?

Still curious? There's plenty to learn. Googling "electric cars" brings up 15,900,000 hits. If you only search on YouTube you'll find over 19,000 videos, enough to keep even the most fanatical EV enthusiast busy for a long time to come. Here are the first 10 videos, but you'll have to find the rest yourself...

Wrightspeed vs Ferrari- <http://www.youtube.com/watch?v=BqgtUpfZEIQ>

Tesla Electric Car- <http://www.youtube.com/watch?v=kRd7ER7u-KU>

Electric car conspiracy?- <http://www.youtube.com/watch?v=xb9ypkc9Uvs>

Who Killed the Electric Car? [Trailer]- <http://www.youtube.com/watch?v=nsJAiRYIGz8>

Tom Hanks Electric Car- <http://www.youtube.com/watch?v=aNZT61Dgbvs>

Evette electric car- <http://www.youtube.com/watch?v=9X2-r8RoNL4>

The unveiling of the Tesla Motors Electric Car- [http://www.youtube.com/watch?v=hOI\\_1S10jTk](http://www.youtube.com/watch?v=hOI_1S10jTk)

Shai Agassi: Revolutionizing the Electric Car in Israel- [http://www.youtube.com/watch?v=OmOW0z\\_AMI](http://www.youtube.com/watch?v=OmOW0z_AMI)

Electric Car Conversion- <http://www.youtube.com/watch?v=9vhywPK7Vz0>

Underwater Electric Car- <http://www.youtube.com/watch?v=AqinaneamsU>

## Service Advisor Spotlight

### Our EV Tech Team



evmechanic4.jpg

If the market for electric cars is in its infancy, then the maintenance of electric cars is just a glimmer in a mechanic's eye. Standard internal combustion cars have a massive infrastructure to support them: dealers and repair shops to provide service, outlets to supply parts, schools to train technicians, massive books documenting the details of every electrical and mechanical system, even junkyards to supply out-of-production parts. On the other hand, if you buy one of the current electric vehicles you get little more in the way of support than good wishes. Dealers don't repair their products, parts aren't readily available, and there are few diagnostic reference materials. Alain, who brings his EV to us for maintenance, usually comes in with armloads of parts kits and xeroxed instructions he's ordered online.

In this newsletter instead of concentrating on one particular tech, we want to give props to our whole tech team for their work on electrics. "Repairing electric vehicles is a lot like boat repair", says Tom. "The parts aren't even standardized between models, and it takes someone with a deep understanding of electrical and mechanical systems to diagnose and repair the vehicle." The techs at Tom Dwyer Automotive Services are exactly the kind of flexible, analytical thinkers necessary for this task because all of our technicians are ASE Certified, and the most are ASE Masters with years of experience. This standard of training and experience is rare in any shop, and when a technician reaches this level they like challenges. Our techs love the opportunity to work on EVs because they are new and exciting puzzles that demand the most of their abilities.

At Tom Dwyer Automotive we think that electric- and alternative-fueled vehicles are the future, and that as their popularity increases the demand for quality service will increase as well. Whether it's optimizing your current vehicle for emissions and mileage, retro-fits to run on ethanol or blended fuel, or upgrading the suspension on your new electric, we'll be here for you. And, as the technology changes, you can be assured that we'll be keeping up-to-date on it so that we can continue to provide the high level of client service you've come to expect.

## Client Profile- Alain Millar

Does anyone actually own an electric car?



Alain, Sheilagh, Rhiannon, Cameron, and their Xebra

alainandfamily.jpg



alainzap1.jpg

The bridge of the Starship Enterprise



alainzap2.jpg



alainzap3.jpg

alainzap4.jpg

alainzap5.jpg

alainzap7.jpg

alainzap6.jpg

You've seen electric cars on news shows, Discovery Channel, and now in our cutting-edge newsletter. But sometimes it seems like those are the only places you see them. Does anyone actually own an electric car? Happily the answer is yes, and the owners happen to be Tom Dwyer clients. We talked with Alain Millar about the Zap 3-wheeler that he and his wife Sheilagh Griffin bought about a year ago. "We'd been thinking about downsizing to a one-car family, but I'm not a very keen cyclist and I like to stay dry so a bicycle was out", he said. However, Alain had been showing the documentary "Who Killed the Electric Car?" to his science students and was ready to make a political statement about the practicality of electrics. Alain and Sheilagh soon found themselves in the local Portland electric car dealership trading in their Honda Civic on a Zap Xebra, the only pure electric production vehicle available in the US.

The Xebra is a 100%-electric 3-wheeler that's classified as a motorcycle, so although it doesn't require a motorcycle license or a helmet, insurance is only \$160 per year. It costs about \$10,500, and although people have reported getting about 3-4000 miles on a battery, it's so new that no one knows its mileage potential for sure. The Xebra's goes 15-25 miles per charge, and its six 12-volt batteries charge overnight from a standard 110-volt outlet for about 50¢ a charge. It does 25-35mph on a flat road and tops out at 40mph on the downhill. The Xebra seats four people and has a maximum load of 500lbs. "It's not for everyone because of the low speeds and short distances", says Alain. "We still have our Odyssey van as a main car, but it works great as a supplemental vehicle." The Zap is made in China so it suffers from some of the quality issues of Chinese manufacturing. "It's kind of like my early model VW. The wiring's gotten wet and the car wouldn't run. I've had some frustrations with air leaks while driving. I have to be careful of puddles, and the heater barely works. These are a little annoying, but since I only drive less than 5 miles a day it's not a big problem." Some of these issues happen in any new car design as bugs are worked out, and others are expected to be addressed as the model is improved. For example the "next generation" Xebra has a hatchback, and the fiberglass body construction has been replaced with much stronger sheet metal.

Alain has had a couple issues with the dealership, which helped bring him to us. "The dealership doesn't really support the product. They have a bare-bones mechanical shop, and won't do much work at all on the vehicle. I came to Tom Dwyer because I had a history with them. [They] were willing to look at what I needed, figure out how to do it, and then do it right." Now that he's an owner, Alain believes that a passion for electric vehicles is critical to finding a dealership that can help with the entire ownership experience. "There's a dealership called Grant's Pass Electric Vehicles that's owned by a gentleman named Sean Rarey. He's really active in the EV (Electrical Vehicle) community, and a frequent contributor to

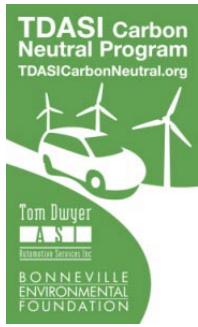
the [Xebra EV discussion site](#). They offer strong product support, and are willing to tinker with the car. I think that the business model for the future will be like Sean's and Tom's, where an enthusiast builds a company around his own interests."

A Xebra and an exotic sports car don't have much in common, but Alain says there is one thing... "I think you get just as many stares driving a Xebra as you would a Ferrari. Everyone waves and smiles, and kids especially love the car. We have to build in time when we do errands to talk to all the curious people, and we've even printed up flyers for them with basic information. It happens so often we've got a name for it; we call it 'getting zapped'. One time we got zapped by a cop on the Hawthorne Bridge. He pulled us over but he didn't write a ticket or issue a warning. He did ask a lot of questions. We think he was basically just curious about the car."

So was it a good decision? Would he recommend a Zap to other people? "It's mostly been a good experience for me, but it might not be for everyone. I bought it because it's fun and does what I need, but if you're considering an EV then you have to be realistic about your expectations. Look at your driving habits, look at your needs. It's a good commuter car, and a good supplemental car. Even when the gas prices were higher, the car might not pay for itself through gas savings alone. I didn't buy it as a money saver, though. I bought it to make a political statement, and because of its environmental impact. In the long term I think it will pay back many times over."

## CNP Update

### Introducing "350 to 350"



cnpdecal.jpg

You probably know that the Tom Dwyer Automotive Services Carbon Neutral Program broke the "million pound mark" on May 20<sup>th</sup>, preventing approximately 1,005,900 pounds of carbon dioxide from entering our atmosphere. This is the same amount of carbon that would be produced in one year by approximately 75 average homes in the Pacific Northwest. What's happened since then?

One big thing is that the Bonneville Environmental Foundation, the organization that provides the carbon offsets for the CNP program, has received the Green-e Climate Certification for the quality of their offsets. This is the highest standard certification available, and they are currently the only non-profit carbon offset provider to meet these stringent standards. In other words, you can be confident that the money you spend on these offsets actually goes to fund effective renewable energy projects.

The other big news is the global "350" movement. Atmospheric carbon is measured in "parts per million", or ppm. We know that carbon contributes to climate change, but there's always been some atmospheric carbon from purely natural processes like volcanism, decay, respiration, and other sources. Is there a "safe" level of carbon, and if so what is it? How close are we to that level? The best science available tells us that 350 ppm is the red line for humans. The farther we go over that red line, the less likely it is that we'll ever be able to bring climate change under control. Right now we're at 387 parts per million.

The "350" movement is trying to make people aware of where we are in our planetary carbon production, and turn it into a real, concrete concept instead of a vaguely bad thing. If you go to 350.org, you can learn all about this global movement to bring us back down to 350ppm. We're making some changes to the TDASI-CNP to fit in with this movement. Last year we offered over \$317 in discounts to our CNP members, but this year we're upping the ante to \$350 and calling the program "350 to 350". Spend about \$100, get about \$350, and help get the planet to 350. Not bad.

Do you know anyone who is looking for a way to contribute to the fight against global warming? Please tell them about the 350 to 350 program and the benefits it has not only for the planet, but for the people participating. If they're interested, they can find all the details about the Tom Dwyer Automotive Services Carbon Neutral Program at [www.TomDwyer.com](http://www.TomDwyer.com).



drewskitchen.jpg

This month it's so crowded in Drew's kitchen that we can hardly get to the stove for all the fruitcakes, turkeys, desserts, and other holiday necessities stacked around. To clear out a little space, we're giving you TWO of our favorite recipes for the kind of warm and cozy holiday foods and drinks that will mean memories for your whole family. Enjoy!

### Homemade Irish Cream Liqueur

The "Bailey's Original Irish Cream Liqueur" is a long-time favorite specialty liqueur for the Holiday season. It's a hard one to reproduce, but this is pretty close as well as inexpensive, quick, and easy. Homemade liqueurs make great gifts, but make sure you have enough for yourself!

2 eggs (see note)  
1 1/3 cups evaporated milk  
½ teaspoon chocolate syrup  
1 tablespoon vanilla extract

1/3 teaspoon lemon extract  
¼ teaspoon instant coffee granules  
¼ cup granulated sugar  
1 ½ cups Irish whiskey

Place eggs, evaporated milk, chocolate syrup, vanilla, lemon extract, coffee granules, sugar and whiskey in blender; blend well. Bottle and let mellow in refrigerator at least one week before serving; best after 1 to 2 weeks. Store in refrigerator, use within 3 months. Liqueur may be served at room temperature by pouring into glasses an hour or two before serving.

### Sloshy Uncle Drew's Best Fruitcake Ever!

1 cup butter  
1 cup sugar  
4 large eggs  
1 cup dried fruit  
1 tablespoon baking powder  
1 tablespoon baking soda

1 tablespoon salt  
Lemon juice  
1 cup brown sugar  
Assorted nuts  
1 or 2 quarts whiskey

Before you start, sample the whiskey to check for quality. Good, isn't it? Select a large mixing bowl, measuring cup, etc. Check the whiskey again as it must be just right. To be sure whiskey is of the highest quality, pour one level cup into a glass and drink it as fast as you can. Repeat.

With an electric mixer, beat 1 cup of butter in a large fluffy bowl. Add 1 tablespoon of thugar and beat again. Meanwhile, make sure that the whiskey is of the finest quality. Cry another tup.

Open the second quart is necessary. Add the 2 arge leggs, 2 cups fried druit and beat till high. If druit gets stuck in the beaters, just pri it loose with s drewscriver. Sample the whiskey again, checking for toxscisticity. Next sift 3 cups of salt or something, it really doesn't matter. Sample the whiskey. Sift ½ pint of lemon juice. Pour in a little of whatever that is on the counter over there.

Get up off of the floor. Fold in chopped butter and strained nuts. Add 1 babblespoon of brown thugar, or whatever color you can find and wix mell.

Grease oven and turn cake pan to 350 degrees. Now pour the whole mess in the coven and ake. Check the whiskey again. When the fire alarm gets too annoying, pull the cake out of the oven and throw it away. Dispose of any high-quality whiskey there may be leftover. Go to bed.

# Sellwood Bridge Update

## Change Is In The Air...



People keep asking about the Sellwood Bridge replacement, and for the past nine months the only thing we've been able to say was that the draft Environmental Impact Statement (EIS) was being reviewed. Now, things have changed! Now, there is actual information! The EIS is available online, and it explores each of the competing options in detail. The best way to access any information you are looking for is to go to <http://www.sellwoodbridge.org>, the official website of the Sellwood Bridge Project. But we here at Tom Dwyer don't want you to have to sort through the whole website, so here are a few shortcuts to some of the most interesting parts...

- The **full EIS document** is available at <http://www.sellwoodbridge.org/DeisDownload.aspx>
- A **20-page summary** is available at <http://www.sellwoodbridge.org/DEISDocument.aspx>
- A very good **video presentation** by the engineers at CH2MHill at <http://www.sellwoodbridge.org/DraftEIS.aspx?cmd=more#more>.
- A **comparison of the alternatives** is available at [http://www.sellwoodbridge.org/DEIS/pdf/Sellwood\\_Bridge\\_DEIS\\_Chapter4.pdf](http://www.sellwoodbridge.org/DEIS/pdf/Sellwood_Bridge_DEIS_Chapter4.pdf).

None of the alternatives has been selected yet, and the public comment period closed on December 22. The most critical element to us is the length of the bridge closure. Options range from 'no closure' through 24 months to as much as 42 months without a bridge, and these are only current estimates. We think this would be crippling to the businesses and neighborhoods of Sellwood, Westmoreland, and others, and would have repercussions for the entire area for decades to come. If you're wondering, we're favoring option "D" which can either be a deck arch or delta frame bridge and would cost between \$293 and \$311 million. It seems to be a good balance of cost and functionality and can be built without a bridge closure. We'll tell you as soon as we know which option is chosen, and if you know who is going to eventually fund the project in this economy, please tell us.

## Thanks for your business

Thank you to all of our clients and friends who have graciously supported and referred TDASI over the years. Our business is built upon the positive comments and referrals from people like you. Recommending us to others is the highest compliment we can receive. Referrals are critical to our survival and long term growth.

We strive for 100% client satisfaction, so please take the time to complete the survey left in your vehicle after each visit. This information is helpful for us to improve and continue to provide impeccable automotive service. Thank you for your trust and continued support!

### **Free Car Wash Season Is Over (Sorry!)**

Our Free Car Wash Season ended on September 15, but it starts up again next May 15. If you can hang onto that layer of ice grime and snow sludge, we'll get rid of it for FREE in about 5 months.

## Quarterly Coupons

**Because nothing keeps you quite as warm as money!**



winter2009couponpic.jpg

There's no better way to start a New Year off right than by saving actual crisp cash on stuff you need to do anyway. Come on down and cash in on these exciting Winter specials...



1win09.jpg

### **25% Off Labor- Winterization Special**

Inspect heating system operation, water pump, fan, and thermostat operation. Inspect for leaks, check belts and hoses. Service cooling system (Up to 1 gallon of coolant; thermostat replacement is extra.) Oil change, filter, and lube. (Up to 5 quarts standard oil; synthetic oil is extra.) Coupon must be presented at time of appointment, not combinable with other offers. Expires 3/20/2009. Coupon Code 1-WIN09



2win09.jpg

### **\$20 off- 3,000 mile Interval Service with Tire Rotate and Balance**

For domestic & Japanese passenger vehicles. (Up to 5 quarts standard oil; synthetic oil is extra.) Coupon must be presented at time of appointment, not combinable with other offers. Expires 3/20/2009. Coupon Code 2-WIN09



3win09.jpg

**20% Off Labor**

Up to \$100 savings. On previously recommended services with service records on file prior to December 21, 2008. Coupon must be presented at time of appointment, not combinable with other offers. Expires 3/20/2009. Coupon Code 3-WIN09



4win09.jpg

**50% off - 125 point Comprehensive Vehicle Inspection**

Have your vehicle receive a 125 point comprehensive inspection once each year. This is the best way to insure we are able to recommend the services and repairs that are right for your vehicle. Coupon must be presented at time of appointment, not combinable with other offers. Expires 3/20/2009. Coupon Code 4-WIN09



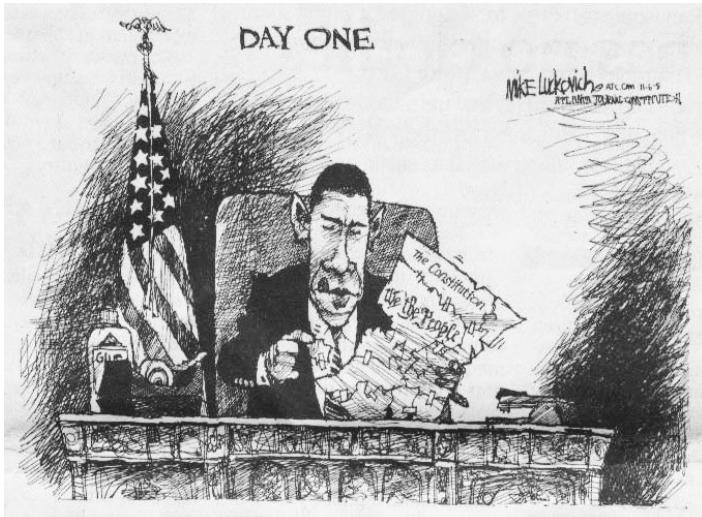
5win09.jpg

**FREE 1-Day Car Rental with minimum purchase of \$275 service**

Must schedule in advance. Coupon must be presented at time of appointment, not combinable with other offers. Expires 3/20/2009. Coupon Code 5-WIN09

## Fall Cartoon

### See You In The Funny Pages



obamacartoon.jpg

## Websurfing With Tom

### Our picks of the web



websurfing.jpg

This quarter's Websurfing section covers several electric car sites as well as the usual randomness. Once again we offer our standard disclaimer: we can't guarantee that everything will be interesting to you, but we can guarantee that it was all interesting to us, and that we looked at each link personally and none of them were pornographic at the time of posting. What, you say? Not interesting enough for you? Please, SEND US YOUR MOST INTERESTING LINKS and we'll post them in our upcoming issues!

**Technical comparison of electrics vs gas-** [http://images.google.com/imgres?imgurl=http://www.rqriley.com/images/sus-1-2-cmp1.jpg&imgrefurl=http://technicalstudies.youngester.com/2008/06/electric-vehicles.html&usg=\\_3DTI16bn0IZYvQW6npzzkoQKCw=&h=1146&w=1000&sz=247&hl=en&start=14&um=1&tbnid=s2IUQO9kRF0\\_M:&tbnh=150&tbnw=131&prev=/images%3Fq%3Delectric%2Bvehicles%26um%3D1%26hl%3Den%26rls%3Dcom.microsoft:en-us%26sa%3DN](http://images.google.com/imgres?imgurl=http://www.rqriley.com/images/sus-1-2-cmp1.jpg&imgrefurl=http://technicalstudies.youngester.com/2008/06/electric-vehicles.html&usg=_3DTI16bn0IZYvQW6npzzkoQKCw=&h=1146&w=1000&sz=247&hl=en&start=14&um=1&tbnid=s2IUQO9kRF0_M:&tbnh=150&tbnw=131&prev=/images%3Fq%3Delectric%2Bvehicles%26um%3D1%26hl%3Den%26rls%3Dcom.microsoft:en-us%26sa%3DN)

**350 Campaign-** <http://www.350.org/en/animation>

**New model of selling electric cars-** [http://www.treehugger.com/files/2008/01/in\\_israel\\_elect.php](http://www.treehugger.com/files/2008/01/in_israel_elect.php)

**How Electric Cars Work-** (Includes great interview video about GEM cars) <http://auto.howstuffworks.com/electric-car.htm>

**Portland Electric Car Dealer-** <http://www.eco-motion.com/>

**Zoop-**

[http://images.google.com/imgres?imgurl=http://www.gizmag.co.uk/watermark.php%3Fp%3D5844\\_100706111856.jpg&imgrefurl=http://www.foursprung.com/2006/07/electric-cars-zoop-high-performance.html&usg=\\_NoN-NhNEYri2iDqMThILN\\_233Yo=&h=429&w=640&sz=30&hl=en&start=42&um=1&tbnid=otnFucDjCZCvEM:&tbnh=92&tbnw=137&prev=/images%3Fq%3Delectric%2Bcar%26start%3D36%26ndsp%3D18%26um%3D1%26hl%3Den%26safe%3Doff%26rls%3Dcom.microsoft:en-us%26sa%3DN](http://images.google.com/imgres?imgurl=http://www.gizmag.co.uk/watermark.php%3Fp%3D5844_100706111856.jpg&imgrefurl=http://www.foursprung.com/2006/07/electric-cars-zoop-high-performance.html&usg=_NoN-NhNEYri2iDqMThILN_233Yo=&h=429&w=640&sz=30&hl=en&start=42&um=1&tbnid=otnFucDjCZCvEM:&tbnh=92&tbnw=137&prev=/images%3Fq%3Delectric%2Bcar%26start%3D36%26ndsp%3D18%26um%3D1%26hl%3Den%26safe%3Doff%26rls%3Dcom.microsoft:en-us%26sa%3DN)

**Nissan Denki-**

[http://images.google.com/imgres?imgurl=http://photos.webridesTV.com/datastore/images/user/1304cb68954a4406430694984bc4e837/Nissan\\_Electric\\_Cars\\_9738\\_9\\_20080627\\_1.jpg&imgrefurl=http://www.webridesTV.com/photos/nissan-electric-cars-97385/4&usg=\\_rLIRHA7Ca9tBD4lclopexJvFtk=&h=475&w=640&sz=173&hl=en&start=50&um=1&tbnid=ybbotWao48OlaM:&tbnh=102&tbnw=137&prev=/images%3Fq%3Delectric%2Bcars%26start%3D36%26ndsp%3D18%26um%3D1%26hl%3Den%26safe%3Doff%26rls%3Dcom.microsoft:en-us%26sa%3DN](http://images.google.com/imgres?imgurl=http://photos.webridesTV.com/datastore/images/user/1304cb68954a4406430694984bc4e837/Nissan_Electric_Cars_9738_9_20080627_1.jpg&imgrefurl=http://www.webridesTV.com/photos/nissan-electric-cars-97385/4&usg=_rLIRHA7Ca9tBD4lclopexJvFtk=&h=475&w=640&sz=173&hl=en&start=50&um=1&tbnid=ybbotWao48OlaM:&tbnh=102&tbnw=137&prev=/images%3Fq%3Delectric%2Bcars%26start%3D36%26ndsp%3D18%26um%3D1%26hl%3Den%26safe%3Doff%26rls%3Dcom.microsoft:en-us%26sa%3DN)

**10 Electric Car Companies you don't know about-** <http://images.google.com/imgres?imgurl=http://www.automopedia.org/wp-content/uploads/2008/05/lightning-electric-car->

[picture.jpg&imgrefurl=http://www.hugg.com/node/14054&usg=\\_BhJiCw3hNgqwKJqGVkKZX90oo7c=&h=293&w=500&sz=18&hl=en&start=43&um=1&tbnid=dvm\\_sZ6t\\_9CpNM:&tbnh=76&tbnw=130&prev=/images%3Fq%3Delectric%2Bcars%26start%3D36%26ndsp%3D18%26um%3D1%26hl%3Den%26safe%3Doff%26rls%3Dcom.microsoft:en-us%26sa%3DN](http://www.hugg.com/node/14054&usg=_BhJiCw3hNgqwKJqGVkKZX90oo7c=&h=293&w=500&sz=18&hl=en&start=43&um=1&tbnid=dvm_sZ6t_9CpNM:&tbnh=76&tbnw=130&prev=/images%3Fq%3Delectric%2Bcars%26start%3D36%26ndsp%3D18%26um%3D1%26hl%3Den%26safe%3Doff%26rls%3Dcom.microsoft:en-us%26sa%3DN)

Tesla Motors- <http://www.teslamotors.com/>

Commuter Cars- <http://www.commutercars.com/>

Wrightspeed- <http://www.wrightspeed.com/>

Nice Car Company- <http://www.nicecarcompany.co.uk/>

Who killed the electric car- <http://www.youtube.com/watch?v=nsJAlrYjGz8>

Unveiling Tesla- [http://www.youtube.com/watch?v=hOl\\_1S10iTk](http://www.youtube.com/watch?v=hOl_1S10iTk)

35<sup>th</sup> annual electric car rally- <http://www.youtube.com/watch?v=uEOepSoeIKE>

Fisker and Aptera cars- <http://crave.cnet.co.uk/gadgets/0,39029552,49299234,00.htm>

Killing the Electric Car - USA- [http://www.youtube.com/watch?v=\\_AU3\\_2IT8k8](http://www.youtube.com/watch?v=_AU3_2IT8k8)

EGAS Portable Power Generation- <http://www.greatsystemsinc.com/>

Super Barack 1- <http://www.youtube.com/watch?v=0kQeqaAwQVg>

Super Barack 2- <http://www.youtube.com/watch?v=0usWSw6CR7I&feature=related>

Empire Strikes Barack- <http://www.youtube.com/watch?v=a8lvc-azCXY&feature=related>

Cute Kitten Video- (warning: very mild language) [http://www.youtube.com/watch?v=vkgvXBZj5Gw&eurl=http://www.urlesque.com/2008/12/10/2008-urles-lifetime-achievement/&feature=player\\_embedded](http://www.youtube.com/watch?v=vkgvXBZj5Gw&eurl=http://www.urlesque.com/2008/12/10/2008-urles-lifetime-achievement/&feature=player_embedded)

Throw a Shoe at the President- <http://sockandawe.com/>

Oregon Electric Vehicle Association- <http://www.oeva.org/>

Columbia Green Living Journal- Read latest issue online, very cool- <http://www.columbiariverpress.com/>

Exotic Marketing Vehicles- <http://blogs.static.mentalfloss.com/blogs/archives/21341.html>

## In our next newsletter...

### The Power of the Future



new\_power.jpg

Fine, fine, fine. We all know that fossil fuels are on the way out, but while wind and solar are great they don't solve all our problems. Where will the power of the future come from? We'll look at the state-of-the-art of several technologies, their good and bad sides, and what role they might play in the energy mix for ourselves or our grandchildren.