

August 2011



**Hot Summer Edition!**

## Newsletter

Welcome to the OKRA online newsletter. Please feel free to share our newsletter with anyone who might enjoy reading it. To receive electronic notification of newsletter availability and general recycling announcements, sign-up for the OKRA list server on our website: [www.recycleok.org](http://www.recycleok.org)

### It Pays to Recycle in OKC!!

Oklahoma City began its Blue Bin Instant Win contest on May 2. It's a 52-week recycling contest in which one customer could win a \$100 gift card just for properly setting out a Little Blue recycling bin for collection.

The contest is sponsored by the City of Oklahoma City Solid Waste Management Division and the city's contracted collection vendor, Waste Management Recycle America. A similar 12-week contest was conducted in 2008 when brochures and entry forms were mailed to Oklahoma City residents.

The 2011 campaign eliminates paper, printing and postage costs thanks to Oklahoma City's ability to conduct electronic random drawings from its utility account database. No entry forms needed. Oklahoma City customers are already entered in the contest if they 1) receive utility bills from the City of Oklahoma City and 2) are eligible to participate in the Curbside Recycling Program.

Each week until the end of April 2012, one customer's name will be electronically drawn.

Once a customer has been declared a weekly winner, a hangtag will be left on the door. The hangtag can be redeemed for a \$100 Visa gift card at the Utility Customer Service Center at 420 W. Main, first floor.

If the person whose account is randomly selected does not properly fill and set out a Little Blue recycling bin that week, the \$100 gift card will roll to the next week, giving the next customer a chance to win two \$100 gift cards, and so on.

**One lucky resident won \$500 because the four before her failed to set out their recycling bins!**

Winners are encouraged to keep recycling because it's possible to win more than once. Names will stay in the electronic "hopper" until the contest ends. City officials expect the year-long contest to help customers make recycling a habit, increase the City's recycling participation rate and keep recyclable materials out of the landfills.



### Calling High School Students for OKRA's PSA Contest

OKRA is hosting its 2nd statewide video PSA contest for grades 9-12. To enter, participants must submit a 30 or 60 second audio-visual public service announcement.

A \$25 cash prize will be given to each correctly submitted entry. In addition, cash prizes of \$500, \$300 and \$150 will be awarded to the 1st, 2nd and 3rd place winners, with additional cash prizes going to the Science or Environmental Club at their school.

This year's theme will be "Recycle for Your Future" with an emphasis on how recycling saves natural resources and energy and reduces pollution.

Entries must be postmarked by Friday, Oct. 21, 2011. Entry forms and additional info will be posted in the near future at OKRA's website at [www.recycleok.org](http://www.recycleok.org).

Winners of the PSA will be announced on November 15, 2011, America Recycles Day.

**The 1st Place PSA may be aired on TV stations across Oklahoma!**

## Tulsa Introduces Cool Cash Program

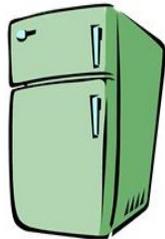
Since June 1st, the "Cool Cash" program has allowed Tulsa residents to get rid of energy wasting appliances, lower their electric bills, and get paid to help the environment. "Cool Cash" is a joint effort by the City of Tulsa, the Public Service Company of Oklahoma (PSO), and the Metropolitan Environmental Trust (M.E.T.) which offers Tulsa residents a \$25 rebate for the curbside recycling of old (working) refrigerators and freezers.

The city picks up the appliances, PSO issues the check to the resident, and the M.E.T. dismantles the refrigerators and recycles the parts. The refrigerant is extracted for reuse and the metal is crushed and melted down for recycling into other products.

Older refrigerators use a lot of energy, up to 10x more than recent models, according to Michael Patton, executive director of the M.E.T. So this may be the perfect time to upgrade your refrigerator, have the old one disposed of in an environmentally friendly manner, save on energy bills, and get a \$25 rebate.

The "Cool Cash" program runs from June 1st through August 31st, and the first 800 eligible Tulsans to sign up will receive the \$25 rebate from PSO.

As of August 1st, about 200 working refrigerators had been turned in for "Cool Cash." According to Michael Patton, the "Cool Cash" partners may extend the deadline and expand the program to other nearby communities in order to increase participation.



Tulsa residents can call 918-596-9777 to participate in the "Cool Cash" program.

## Tahlequah Plans for Recycling Facility

On July 20th, Josh Hutchins, president of Tahlequah Recycling, Inc. (TRI) told the Tahlequah Industrial Authority (TIA) that he intends to build a 20,000 sq. ft. facility in the Tahlequah Industrial Park financed with a grant from the USDA.

After discussion, the TIA decided that they needed to be the grant applicant, and that Tahlequah Recycling would lease the building from them.

Hutchins said the facility would be used to sort and process recyclable materials and would employ between 19 and 30 people. It is expected to be operational within one year and have the ability to process up to 100 tons of materials per day.



## RECYCLING NEWS FROM ACROSS THE STATE

### Miami Fire Closes Recycling Center

The Red Cedar Recycling Center at 202 D ST NE in Miami was extensively damaged by fire on Sunday, July 24th. Until further notice, people who formerly dropped off their recyclables at the Red Cedar Center need to take them to Miami's recycling center at the Solid Waste Department at 1117 W. 22nd St.

Red Cedar personnel reported that quantities of plastics and cardboard were lost in the fire, but they had recently transported out a truckload of recyclables or the loss would have been much worse.

Current plans are to reconstruct the Red Cedar Recycling Center. But for the present, the recycling operation is set up at Miami's Solid Waste Department.

### Recycling in Enid

The City of Enid recently added a tire receptacle to their recycling center so that residents can drop off old tires. Years after curbside recycling was discontinued in Enid, the recycling program continues to operate, in large part due to the volunteers who manage the recycling operation.

Enid's recycling program is operated by the Northern Oklahoma Resource Center of Enid (NORCE) as one of its vocational services. NORCE employees work at the recycling center, emptying bins, sorting recyclables and placing them onto trailers. Proceeds from the sale of recyclables go back into the recycling program.

The recycling center accepts newspapers, cardboard, clothes, shoes, belts, purses, aluminum cans, stuffed toys, all leather goods and plastics #1 and #2.

For Enid residents who desire the convenience of curbside recycling, a new company called Keepin' Enid Green LLC (KEG) provides the service of collecting recyclables at residences for an affordable \$10 per month.

Most recyclables collected by KEG are donated to OES Material Recovery, a nonprofit that employs people with developmental disabilities.

KEG only started up in April, but already serves over a hundred residences and a handful of businesses in Enid, Carrier, Lahoma, Hillsdale, and Kremlin. For more info, see [www.keepinenidgreen.com](http://www.keepinenidgreen.com).

## Plan to Attend OKRA's 2011 Recycling Seminar

Save the Date!  
October 13

"Recycling Across Oklahoma: Urban, Suburban and Rural" is the theme of the 2011 Oklahoma Recycling Seminar. The full day conference and expo, hosted by OKRA, will take place on Thursday, October 13 and is returning, by popular demand, to the OSU Conoco-Phillips Alumni Center in Stillwater.

This year we will be adding a keynote speaker over lunch. Vonda Lockwood, Walmart Director of Store Innovations and Sustainability, will describe Walmart's Zero Waste Program, which includes working with vendors to reduce packaging, donating or composting food waste, and using "Super Sandwich Bales" to recycle 32 different materials. Come learn how Walmart expects to reach its 100% diversion from landfill goal by 2025 and find out what happens to those disposable plastic grocery bags you recycle at their stores.

Keeping with tradition, Michael Patton, of the Metropolitan Environmental Trust, will start us off in the morning with Oklahoma recycling updates and an economic outlook, including future trends in recycling. "Recycle Michael" will also discuss possible labeling changes for plastic containers toward the end of the day during the "Lightning Round."

The Lightning Round, a new feature we are borrowing from the national Resource Recycling Conference, will consist of "lightning-fast" updates by local experts like Michael, Dept. of Environmental Quality Manager of Solid Waste Programs, Fenton Road, and others. Audience members will be encouraged to ask questions on any recycling or composting topic.

Panel discussions in the morning and afternoon will present more opportunities for questions to be answered: "Rural Recycling Collections," including Hub & Spoke Collections in SE Oklahoma; Recycling Efforts in Rural Areas; and, a Rural MRF Success Story. "Keeping Hazards out of Landfills," including E-Waste Recycling & Legislation Update; Sharps in the Waste Stream; Tire Collection Collaborations; and, Household Hazardous Waste Events. "Small & Large Compost Programs," including Backyard Programs; Municipal Scale Operations; and Composting Paper into Animal Bedding.

Representatives from the Tulsa Master Recyclers Pro-

gram will also share why it's a good idea to have a master recyclers program and how to develop one in your own community.

Although the formal seminar program will end at 5 p.m., the fun continues with an optional excursion to Skyline Elementary School for a presentation about Stillwater Public Schools' programs for vermicomposting cafeteria waste.

Finally, all attendees will be invited to drop in at Hideaway Pizza in the evening for a come and go, no-host pizza and salad buffet, more networking and informal discussions of the day's events.



*Walmart and Sam's Club locations use the super sandwich baling process to recycle 32 different materials. In 2009 alone, more than 1.3 million pounds of aluminum, 120 million pounds of plastics, 11.6 million pounds of mixed paper and 4.6 billion pounds of cardboard were recycled through this process. Photo: Walmart Corp.*

Seminar registration for "Recycling Across Oklahoma" is now open. Participants can register online at [www.recycleok.org/events-activities.php](http://www.recycleok.org/events-activities.php) or by contacting OSU Ag Conference Services at 405-744-6489. Registration forms also can be downloaded from the website.

Registration fees are \$45 if registering by Oct. 6 and \$60 thereafter. Current OKRA members may register at the discounted rate of \$35 until Oct. 6 and \$50 thereafter. Students can attend for \$15. Exhibitor rates are \$150 for business or government and \$50 for non-profit organizations.

Registration includes all sessions, continental breakfast, lunch, breaks, and parking in the Student Union lot. We've been able to keep registration fees low for participants because of the generosity of our wonderful sponsors: Greenstar Recycling, Oklahoma Department of Environmental Quality, Oklahoma Environmental Management Authority, Choctaw Nation, OGE Energy Corp, Indian Nations Chapter of SWANA, Oklahoma Sierra Club and Oklahoma Cooperative Extension Service.

Five continuing education credits will be offered to members of SWANA (Solid Waste Association of North America) who attend the seminar.

Should you wish to exhibit at the 2011 Oklahoma Recycling Seminar, become a sponsor, or check to see if you qualify for discounted registration rates, please contact the Seminar Planning Committee by emailing [info@recycleok.org](mailto:info@recycleok.org).



Check us out on Facebook at  
[www.Facebook.com/  
RecycleOK.org](http://www.Facebook.com/RecycleOK.org)



# Sierra Club Educates Paseo Arts Festival Patrons about Recycling

By Vicki Rose, Cimarron Group Chair

For the fifth year, Sierra Club Cimarron Group developed and implemented a recycling plan for the annual Paseo Arts Festival. Talking to folks at the booth and serving as role models provided multiple opportunities to inform and educate. Over the hot and windy Memorial Day weekend, Sierra Club volunteers bagged and hauled recyclables, netting the following: Not only does this mean that 1,081 lbs. of materials were kept out of the landfill, but substituting this

aluminum—214 lbs.	cardboard—87 lbs.
plastic bottles—79 lbs.	glass—701 lbs.

scrap for virgin materials will conserve natural resources – and reduce both pollution and the demand for energy. Consider the true cost of a product over its entire life cycle: most of the stuff we think of as necessary has an energy-intensive history. Virtually every item we buy represents greenhouse gases emitted in its creation, transportation, use and disposal.

Remember to use the three hierarchies of waste management in this order: **Reduce** (or just Use Less Stuff!), **Reuse, Recycle!**

**The Story of Stuff**—Watch a 20-minute video that

explores the full life cycle of what we buy and the political-economic history of conspicuous consumption: <http://www.storyofstuff.com>.



Rick Wicker and Doug Hill fill a Greenstar truck to the brim. OEMA provided the recycling collection bins.



## Keep an eye out for Oklahomans recycling!

If you catch them in the act, send a photo to OKRA newsletter editor, Trudi Logan, at [trudi.logan@us.af.mil](mailto:trudi.logan@us.af.mil) and we will include the picture in a future issue of the OKRA News.

## Dog Poop to Power Park's Street Lamp

By Alexis Petru

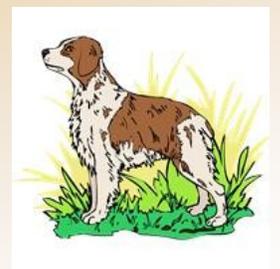


### One dog's waste is another man's treasure?

The Phoenix suburb of Gilbert is considering harvesting the power of poo, converting dog waste from a popular dog park into methane to power the park's street lamp, The Arizona Republic reports.

Dog owners at Cosmo Dog Park, which receives 600,000 visitors a year, would clean up after their pet using park-supplied biodegradable bags and then drop the bags into the dog waste digester, instead of a trash can. They would turn the digester's hand crank to stir the mixture, causing the methane to rise and fuel the street lamp.

The town is seeking a corporate sponsor for the \$25,000 project, and Arizona State University science students would be charged with designing the digester. The pilot project is scheduled to go before the Town Council next month for approval, and, if successful, the technology could be applied to other energy-generation projects.



## Bethel High School

OKRA recognizes the efforts of Bethel High School who was a national winner of the 2010 Paper Retriever Earth Day Challenge and whose science fair is "going green" by collecting empty laser and inkjet cartridges as well as used cell phones through the Funding Factory program.

Bethel High was featured on the front page of the June 2011 edition of the OKRA news which can be viewed at <http://www.recycleok.org/pdf/Newsletter10June2011.pdf>.

OKRA will be making a \$100 donation to Bethel High in recognition of their commitment to recycling!

## Pepsi vs Coke – The Battle of the Bioplastics!

*In the war of the soft drink giants Coke and Pepsi battle against each other in the development of plant-based bottles.*



On March 15, PepsiCo announced that it had developed the world's first PET plastic bottle made entirely from plant-based, fully renewable resources. PepsiCo claimed that their new plastic bottle outshines the technology of competitor, Coca-Cola, whose

"PlantBottle," released in 2009, uses 30% plant-based materials.

### So there's good news and there's bad news...

The good news is that these new bioplastic bottles are made from renewable resources. PepsiCo's bottle is made from switch grass, pine bark, corn husks and other biological materials. In the future, PepsiCo hopes to expand the source materials to orange peels, potato peels, oat hulls and a variety of other agricultural by-products from some of its other product brands, such as Tropicana, Quaker and Frito-Lay.

In addition, manufacturing plant-based plastics reduces the carbon footprint. One independent study found that Coca-Cola's PlantBottle packaging technology reduced carbon emissions by 12-19%, when compared to petroleum-based PET plastic bottles. These bioplastics greatly reduce dependence on fossil fuels and enhance the recyclability of the final product.

Both PepsiCo and Coca-Cola can be commended for creating plant-based HDPE and PET instead of other forms of bioplastics. Although all bioplastics are technically "recyclable," most recycling systems are not equipped to recycle those that don't mirror existing plastics. So, when most bioplastics are received at recycling center, they end up being segregated out and thrown into the garbage. These new bottles, however, can be recycled right along with the other PET and HDPE plastics.

### And now for the bad news:

Unfortunately, a plastic made from plants is still a plastic, and has all the same environmental issues as plastic made from fossil fuels. They aren't biodegradable, they can leach potentially harmful chemicals into our food, and they pollute waterways and fill up our landfills.

And only about 25% of the plastics used are recycled. So whether the plastic bottle is recyclable or not, three of every four will usually end up in a landfill or along the side of the road.

### So in the long run...

Some environmentalists think the soft drink giants could do a lot more environmental good by focusing on recycling instead of on making plant-based bottles.

They could support bottle bills, which create deposit systems for beverage containers and greatly increase the rate of bottle recycling. To date, both companies have opposed bottle bills, citing the expense of setting up the collection and processing systems for their containers.

They could commit to using more recycled material in their bottles. Although expensive, several other companies are using 100% recycled plastic, proving that it can be done.

So, although the new bioplastics are a small step in the right direction, greater leaps are needed in order to reduce the adverse effects of plastics on the environment. From the consumer's end, using fewer single-use bottles is always the best idea. One easy thing to do that can make a huge difference, drink tap water from a reusable container and skip on the bottled water!



## Young Campers Invent Ways to Recycle at Camp Invention

For the past three years, middle school science teacher, Kenneth Cole, has been helping out with Camp Invention summer camp in Sapulpa, OK at Freedom Elementary school. This 4 to 5 day summer camp is designed to make hands-on science and invention very fun and rewarding for kindergarten through 5th graders.

One of the requests is that every camper bring recyclables, and an item that they can take apart to make something else. The recyclables include boxes, plastic bottles, paper tubes, egg crates, bags, empty containers, etc. The kids use these items and make different items depending on the curriculum being taught. This promotes finding new uses for everyday items, the kids are reusing and they know that it is a form of recycling because the items donated have previously been used.

Another camp component comes from the Take Apart Machine. Kids bring in radios, computers, cameras, gaming consoles, stereos, VCRs, etc. The kids take apart the machines and reinvent new uses for the materials they have, some build a rollercoaster, or pinball machine, or a Rube Goldberg apparatus. The ideas seem limitless.

At the conclusion of the camp all recyclables are recycled and the Electronic Waste is diverted from landfills and donated to Natural Evolution, an e-waste recycling company in Tulsa. Each of the last three years, Mr. Cole has delivered a full truckload of E-waste, weighing 600-800 lbs. Mr. Cole ensures that the campers learn that the landfill is not a good place for things that can be recycled, reused, or remade into new things, especially the E-Waste. He hopes that the younger generation will hold on to these principles and teach it to their kids too!

## New Military Garb May Be Made From Plastic Bottles

by Mary Mazzoni

Recycled soda bottles have been put to use in some very interesting applications – toys, paints and even graduation gowns. And soon they may be put to use in U.S. military uniforms.

A Senate committee is asking the Pentagon to consider whether recycled materials could be acceptable fabrics for the military and what materials could be feasible, according to an article published last week by the *Marine Corps Times*.

In its report on the 2012 defense authorization bill, the Senate Armed Services Committee asked the Defense Department to explore the use of recycled materials in military uniforms, including the use of fabrics made from plastic bottles. The Defense Department was asked to report their conclusions in time to be considered as part of the 2013 defense budget.



The request is likely in response to a 2009 presidential executive order that encourages conservation by, among other things, setting a goal that 95 percent of new government contracts other than weapons include eco-friendly products and services.

For the military, this means seeking out nontoxic or less toxic alternatives for current products, using water-saving techniques and purchasing products made from recycled content.

Americans toss more than enough plastic to be put to use in everyday products. More than 2.4 billion pounds of plastic bottles were recycled in 2008.

And Cintas – an Ohio-based uniform manufacturer – has been turning some of these recycled finds into a variety of interesting fabrics. In addition to providing plastic-based uniforms for a number of companies and small businesses, Cintas claims to have created a machine-washable tuxedo made from recycled bottles.

The process of creating the fabrics is fairly simple – the plastics are shredded, woven into fabric and turned into polyester.

Wearing plastic bottle clothing may sound uncomfortable, but the fabric actually has the same look, feel and durability of standard polyester blends.

Many pieces of military garb are already made from a polyester blend, and manufacturers like Cintas claim this blend can be seamlessly replicated by subbing out traditional polyester with fabrics made from plastic bottles.

Over the past few years, many of these polyester fabrics have begun to be phased out of military uniforms in favor of more flame-resistant alternatives.

The Defense Department will likely consider how recycled materials could also be used to meet the military's need for flame retardant fabrics.

Reprinted with permission from Earth911.com, August 9, 2011  
Photo:Flickr/The US Army

# RECYCLING MADE EASY AND WORTH IT!!!

Cornerstone Metals Recycling, LLC (CMR) has opened a recycling facility in Oklahoma City. The facility will collect metals and all plastics (No. 1-7). One of the top priorities of the recycling facility is keeping our environment safe and healthy. In order to achieve this goal, CMR decided to address some common reasons why people do not recycle.

## #1: It's not convenient:

Most Oklahomans, who do not recycle, see the act as a chore rather than an act of service to the community. To be fair, it can be a hassle trying to find a recycling drop off location. It seems easier to toss recyclables in the trash rather than haul it around till you find a recycling bin or center; and for households, doing it at home just seems like lot of work.

**Solution:** For every household, we suggest you place your recycle bin in the kitchen right by the regular trash. This will serve as a reminder for the household to recycle. When the bin is full, put it in your car and BRING IT TO CORNERSTONE METALS RECYCLING at your convenience. Our yard is open to both individuals and businesses; if you have a huge pile that you cannot haul to us, call us and we will arrange to pick up. Cornerstone's pick up service is available to everyone in the Oklahoma City metro area.

## #2: Is it worth it????

Recycling is worth your time and effort. While it may be common knowledge that recycling helps create a safer and healthier environment, most of us do not realize that it also helps create jobs. According to recycling-centers.org, "for every 10,000 tons of waste recycled, about 36 jobs are created." You can also get paid to recycle!!!!!! Although most people don't do it just for the money, one can earn some cash as well as help others and our environment just by recycling!

## #3: There are enough people recycling already

You'd be surprised how many people are thinking the same thing and leaving it up to "others." It's not enough to let "others" do the recycling; every individual should be concerned with what happens to our environment. At the end of the day, we all have to live in it.

Remember... *"A society is defined not only by what it creates, but what it chooses to destroy".*

—John Sawhill

**Bring us your scrap!**



4420 N. Santa Fe Ave  
Oklahoma City, OK 73118  
405-RECYCLE  
405-(732-9253)

**Hours**  
**MON-FRI**  
**7:30am - 4:00pm**

## Senate Introduces Recycling Resolution

On August 4, Senator Tom Carper (D-Delaware) and Olympia Snowe (R-Maine), Co-Chairs of the Senate Recycling Caucus, introduced Resolution S. 251, expressing support for improvement in the collection, processing and use of recyclable materials throughout the United States.

The resolution reinforces the importance of recycling to the U.S. economy. It is estimated that recycling processors directly or indirectly employ over 450,000 Americans throughout the U.S. These jobs account for over \$90 billion in economic output or roughly 0.6% of U.S. Gross Domestic Product, which is more than the fishing and forestry industries combined.

The resolution also highlights the environmental benefits of recycling. Recycling not only safeguards natural resources and reduces the amount of waste sent to landfills, but also saves energy and reduces greenhouse gas emissions. For example, the use of

recycled aluminum can save up to 92% of the energy that would have been needed to make that product from virgin material.

"Increasing the amount we recycle is a simple, yet effective way to help our economy and our environment by better managing our limited resources," said Sen. Carper, co-chair of the Senate Recycling Caucus. "Since the first Earth Day in 1970, our country has greatly improved our recycling habits. From 1970 to 2000, we increased our collective municipal recycling rate from just 6 percent to over 28 percent. Yet in the past decade, our country's improvement in our recycling behavior has slowed. Anything I do, I know I can do better, and I know that our nation can continue to do better when it comes to recycling. I am proud to introduce this resolution today with my Senate colleagues to show our support for recycling and recognize its tremendous value to our economy and our environment."

"Recycling is one of the easiest and most cost-effective methods to save energy, reduce landfill waste, and supply our manufacturing and construction industries with low-cost materials," said Sen. Snowe.

"Recycling is a major industry in the United States and we should continue to grow the companies that are improving our environment and employing Americans. I applaud Senator Carper for his efforts to promote recycling and look forward to demonstrating the U.S. Senate's support for the recycling industry by passing this resolution."

Numerous organizations have endorsed the resolution, including National Recycling Coalition (NRC), Paper Recycling Coalition (PRC), and the Solid Waste Association of North America (SWANA).



In recent months, Oklahomans have seen a huge increase in the number of non-native pines that have died, sometimes within a few weeks of their first symptoms. Pine wilt, a collective name for several pathogens including nematodes, has devastated pines like Austrian and Scots, and removal and sanitation are the only currently available mechanisms for control.

After the removals and clean-up from pine wilt's damage, there are excellent opportunities to continue beautifying your park, school, yard or library: Replant! Below is a list of replacement trees, suitable for Oklahoma, as well as some important characteristics of each.

## Pines

- ◆ Shortleaf pine – native to eastern Oklahoma, hardy, moderately dense crown, available in limited supplies from nurseries
- ◆ Loblolly pine – native to eastern Oklahoma, avoid planting in high clay soils, open crown, easily found in nurseries
- ◆ Ponderosa pine – native to western US, it has transplanted well in Oklahoma, moderately dense crown, available in limited supplies from nurseries



Note: The listed pines have a different growth pattern from Austrian and Scots pine. Shortleaf, loblolly and ponderosa pines do not keep their branches to the ground; they have a more “open” appearance than the dense growth of Austrian and Scots pines.

## Other evergreens

- ◆ Junipers, improved varieties – native to Oklahoma, aesthetic varieties of eastern red cedar, hardy in almost all soils and locations, drought tolerant, don't spread indiscriminately, many varieties and cultivars available from nurseries
- ◆ Arborvitae – successful introduction to Oklahoma, prefers soils without high clay content, dense branching and foliage, should not be planted near trees or shrubs with seridium canker, available from most nurseries

Additional information and photos of each tree are available through Oklahoma State University at <http://www.okplantid.org/>.

*Article written for The Tree Bank Foundation by Veronica Keithley, a registered professional forester*



## How to make a “green” airtight bag sealer

- ◆ Cut off the neck and cap of a plastic water bottle
- ◆ If the neck edge is jagged, smooth using scissors or by heating edge over a candle
- ◆ Take off the cap
- ◆ Slide the neck over the bag
- ◆ Fold the plastic bag over the bottle neck
- ◆ Screw on the cap over the plastic bag.



**This handy idea comes from the blog of Angie Padilla**