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Scrap tire signs of the times: Weak new tire sales and balder scrap tires

by MIKE BRESLIN

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A sluggish economy continues to affect most everyone and everything, including the tire industry. The Rubber Manufacturers Association (RMA) found that new tire shipments for 2012 were stagnant, unchanged from 2011 at approximately 284 million units. The reason – an increase in new vehicle tires was offset by a decrease in replacement tires sales.

However, RMA, which represents U.S. tire manufacturers, sees a slight increase in vehicle miles traveled and anticipated economic growth, which they predict may result in perhaps a 2 percent increase in tire shipments for 2013, or approximately 6 million more units to a total of 290 million units for this year.

At the same time, the RMA said that more than 1 in 8 U.S. vehicles have bald tires, according to a 2012 survey of 5,300 vehicles. It found that more than 13 percent had at least one bald tire, an increase from 10.4 percent recorded in a 2010 survey. Obviously, motorists are postponing buying new tires, a major household budget buster, particularly with higher new tire costs, closely pegged with rising prices of raw materials.



Cryogenic tire recycling machinery can produce up to 5,000 tons of crumb rubber per hour.

Michael Blumenthal, vice president at RMA is primarily responsible for post-consumer management of scrap tires. He made these observations – “Because of the recession, a lot of people were driving their tires a little bit longer than they would have otherwise. In practice, we probably lost some ground rubber, but we have not seen enough of that to really have any impact on the ground rubber production. There’s still

ample ground rubber out there.

“From 2009 through 2011 it was a real tough marketplace because there were fewer scrap tires out there. Markets were impacted by the recession and a lot of markets lost ground. The impact throughout the industry was quite severe. The one remarkable thing was we did not see a lot of companies going out of business. Companies hunkered down and rode out the

storm. What we’ve seen suggests that there is a lot more stability in the scrap tire infrastructure, a lot more than in years past. And now we are seeing that the markets are starting to come back. That’s positive.”

It’s no surprise to anyone that the prices for new tires have been going up over the past few years, primarily due to increased raw material costs to tire manufacturers.

See SCRAP TIRES, Page 4

Recycling of rigid plastics tops 930 million lbs.

The recycling of rigid plastics, excluding bottles, climbed 13 percent in 2011 to reach approximately 934 million pounds for the year, and U.S. consumers with local access to recycle all non-bottle rigid plastics shot from 40 percent to 57 percent between 2011 and 2012, according to a pair of reports released recently.

Both reports were the result of extensive survey work conducted by Moore Recycling Associates Inc. on behalf of the American Chemistry Council.

The “2011 National Postconsumer Non-Bottle Rigid Plastic Recycling Report” found that 61 percent of rigid plastics collected in the United States were recycled in the U.S. or Canada, a sharp increase from the slightly over one-third recycled in this region in 2007, when Moore Recycling began measuring rigid plastics collection.

This report also found that polypropylene and polyethylene plastics comprise the

largest portion (70 percent) of postconsumer non-bottle rigid plastics collected in the United States with polypropylene constituting 39 percent of all rigid plastics recycling and high-density polyethylene constituting 31 percent.

Contributing to the recent surge in rigid plastics recycling has been a substantial increase in the number of communities that are now collecting many types of rigid plastics in addition to bottles. The new consumer access report, “Plastic Recycling Collection: National Reach Study, 2012 Update” found that more than 1,400 cities and 300 counties in the United States now collect all rigid plastic containers in addition to plastic bottles.

Another key finding of this report is that the portion of U.S. consumers with access to recycle two key categories of rigid containers – HDPE rigid cups, tubs and containers and PET trays, clamshells and cups – now tops 60 percent. This means

that for the first time, under the Federal Trade Commission’s guidelines, recycling access is sufficiently widespread to label these containers “recyclable” without additional qualification or disclaimer.

“With recycling of rigid plastics containers now available to a substantial majority of Americans the recycling message can be greatly simplified, making it easier to educate consumers,” said Steve Russell, vice president of plastics for the American Chemistry Council.

The primary domestic end uses for recycled rigid plastics are pipe, buckets, automotive products and other relatively thick-walled injection products, such as drums and crates.

Data on the recycling of plastic bottles, plastic film, and rigid plastics are captured in surveys and reported separately. The collection of plastics in all three categories has increased recently, with rigid plastics growing the fastest followed closely by film.

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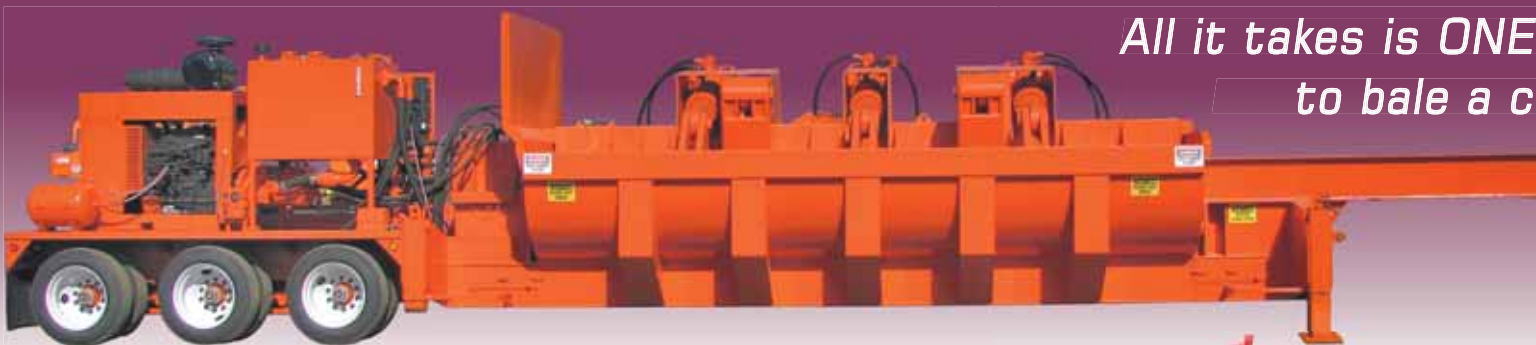
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San Jose rejects foam foodservice recycling

San Jose, California city council rejected a proposal to explore recycling of polystyrene foam foodservice packaging and instead moved to restrict its use by restaurants and other local foodservice operators.

The move is at odds with the trend in California to increase polystyrene foam foodservice recycling, including at curbside. Twenty-two percent of households in California – more than eight million people – can recycle polystyrene foam foodservice cups, plates, bowls, clamshells and other containers at curbside. There also are more than a dozen school districts and at least 15 community drop-off locations in California that recycle polystyrene foam foodservice packaging. Similar programs don't exist for other foodservice and takeout packaging.

During the hearing, scores of local business people, including many restaurateurs, objected to the dramatically higher costs and the lower quality of alternatives to foam. They urged council members not to restrict the only foodservice packaging being recycled in California.

Some council members proposed exploring the feasibility of adding foam foodservice packaging to area recycling programs, which would remove more packaging from the waste stream and help reduce litter. The council rejected the recycling proposal and instead directed its staff to draft an ordinance to restrict the use of these products.

If passed by city council this summer, the proposed restriction would extinguish opportunities for recycling foam foodservice packaging in San Jose.

Kansas City recycler hits 85th year in business

Mallin Bros. Co., Inc., in Kansas City, Missouri, celebrated 85 years of recycling. Beginning in 1928, leading his horse drawn wagon throughout the city and surrounding areas, the late Harry G. Mallin bought recyclables. Throughout the years, the company expanded its' production to include a shredding operation and one of the largest wire processing facilities.

"My father was so forward thinking in his approach to processing wire," stated Jeffrey Mallin, president and third generation Mallin running the business.

"He created a special niche for our company in the recycling industry that has been very successful. We are in our 45th year processing wire and are very excited about our plans for some brand new technologies coming on stream this year, including a solar power addition," Mallin added. Utilities, wire manufacturers, electrical contractors, and other recycling operations make up the customer base that generates scrap wire for Mallin's operation. Being centrally located in the heart of the country has been a major logistical advantage also.

Plastics makers urged San Jose officials to reconsider. "Restricting polystyrene foam foodservice packaging will not eliminate waste or increase recycling," said Tim Shestek, senior director of the American Chemistry Council in Sacramento. "Many people mistakenly believe that alternatives such as paper cups and plates are being recycled. However, there is no commercial recycling of these products.

"Recycling polystyrene foam used for foodservice and other packaging would increase supply of these recycled plastics and would divert more packaging from the waste stream," Shestek continued. "It's already working elsewhere in California – why take a step backward?"

Polystyrene foam packaging:

- Makes up less than one percent of U.S. solid waste, according to the Environmental Protection Agency.

- Represents 1.5 percent of litter, according to a 2012 national litter review.

- Uses significantly less energy and water to manufacture than paper alternatives and creates significantly less waste by weight and comparable waste by volume, according to a 2011 life-cycle study.

Railway uses recycled french fry oil for power

This past Earth Day, the Iron Horse was back and healthier than ever thanks to strictly oil used for french fries and chicken wings. While such a diet might be hazardous to the health of most, The Grand Canyon Railway (GCR) is using recycled waste vegetable oil as fuel on Locomotive No. 4960, a steam engine built in 1923. Beginning in May on the first Saturday of every month through September, all are welcome aboard for a memorable ride on the new-fangled steam engine for a 65-mile journey from Williams, Arizona to the south rim of the Grand Canyon.

The GCR is one of a few passenger railroads in the U.S. to service a restored steam engine for long trips and the first in the U.S. to utilize waste vegetable oil to power it.

But the memorable experience of riding an 18th century invention in modern days almost didn't happen. In 2008, the GCR put its stable of historic iron horses out to pasture due to environmen-

tal concerns about pollution while traveling to Grand Canyon National Park.

Inspired by the innovation of carmakers to run vehicles on waste vegetable oil, GCR general manager Bob Baker and chief mechanical officer Sam Lanter decided to apply the sustainable measure to a steam engine. Not only did it work, but it worked so well that the 90 year old steam engine galloped along carbon-neutral on the Grand Canyon Railway, and thus released fewer emissions than a diesel engine used today and became a green machine. The water used in the boilers is also earth-friendly; boilers contain reclaimed rain and snow melt collected during the winter and Northern Arizona's rainy season for steam. The GCR is the first tourism railway in the U.S. to receive ISO 14001 third-party certification of its environmental management system.

Xanterra owns and operates the Grand Canyon Railway as well as restaurants and lodges in several National Parks.

At a local café, a woman suddenly called out, "My daughter's choking! She swallowed a nickel! Please, anyone, help!"

Immediately a man at a nearby table rushed up to her and said he was experienced in these situations. He calmly stepped over to the girl, wrapped his arms around

her and squeezed. Out popped the nickel. The man returned to his table as if nothing had happened.

"Thank you!" the mother cried. "Tell me, are you a doctor?"

"No," the man replied. "I work for the IRS."

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Scrap tires

■Continued from Page 1

“Even though the prices of new tires have gone up it hasn’t had an impact on the scrap tire market,” Blumenthal continued. “Manufacturers are looking at using different kinds of materials to offset or reduce some of their costs. They are looking for new sources of natural rubber and using non-petroleum materials as their carbon-base to get away from the increased cost of petroleum. They are seeking alternative materials that will give equal or better performance and help stabilize the impact of increasing commodity prices.”

One example of alternative materials was introduced by Yokohama Tires a few years ago when they pioneered the use of oil derived from orange peels to displace some of the petroleum that’s typically used. Last May, Bridgestone, a large tire and rubber company, announced the development of new tire technologies aimed at developing world class tires made from 100 percent sustainable materials. To accomplish this, the company is diversifying the region where it produces natural rubber and expanding the range of reinforced plant fibers it uses in order to replace fossil resources with renewable materials. They are working to develop synthetic rubber, carbon black and rubber

compounding agents that can be made from biomass materials.

Marvin Bozarth, president of Bozarth Tire Industry Consultants LLC, is a consultant to the tire industry and the former executive director of the International Tire and Rubber Association. Bozarth gave American Recycler News his views on the current state of the scrap tire market. “Almost all of it has to do with the economy. People can’t afford expensive new tires so they are holding on to them longer and many are buying used tires. There are a lot of people out of work. You go to Los Angeles, Phoenix and places like that where there are a lot of migrant workers and they are buying used tires like crazy. Some people are also driving less because gas prices are getting close to \$4 per gallon. But the economy seems to be picking up a little with some growth in housing starts and commercial building. So a 2 percent increase in new tire shipments for 2013 is about as good as we can expect.

“There’s a lot more talk about getting rid of used tires, but that’s not going to happen. Nobody pays you for your used tires. It costs money to get rid of a used tire. I think that’s just ridiculous. Some of the major manufacturers are trying to buy back used tires because of liability risks. Even though it’s a used tire they are still responsible for it. Used tires are not going to go away. In Europe they have cut down on them, but there are still a lot being used.

“When tires are worn down to the core, you let them go.” Bozarth continued. “But a lot of people have 50, 60 and 70 percent of rubber on the tires, and one tire gets punctured, so they put on a new set. That puts three good used tires on the market. People can’t face the reality, but we’re all driving on used tires. You drive around the block and you are driving on used. You might hit a nail or a curb, or whatever in the first 50 miles of the tire and it may be weakened. We want safe used tires. We agree they need to be inspected and have enough tread to make them safe, especially in areas with a lot of rain.”

“Used tire sales have always been strong, but with the drop in the economy and all the people that are unemployed, used tire sales are growing stronger. A good number of used tires are being exported out of the U.S. to other countries. We don’t have control over those, but we do have some control in the U.S. because they are trying to get some state legislation passed that says a tire must

have certain qualifications before it can be sold as a used tire.”

“I think you are going to see a good deal more activity in scrap tire recycling. There are now some people breaking down earthmover tires and some are treating crumb rubber. It used to be they could only use about 3 percent of reclaimed rubber mixed in with new rubber, but now we are seeing treated crumb and using up to 20 percent. Scrap tires are also being more accepted as cover for landfills and road building. I think you’ll also see more recycling of tires into fuel,” Bozarth concluded.

American Recycler News spoke with Ron Loyd, vice president of sales and marketing for BAS Recycling, Inc.; located in southern California’s Moreno Valley. Tire recyclers like BAS produce crumb rubber. Tire recyclers also produce products as large as 2” chips which are used as tire derived fuel for high heat generating plants like paper pulp plants and cement kilns.

Loyd said, “There were pressures in the market last year in California for tire collectors. Exports going to the Asian market were up substantially. The majority of tires exported were passenger tires so haulers serving the commercial truck tire markets were less affected. There were many processors that relied quite heavily on tip fees where collections were diverted to exports. That created a really competitive situation in the market for getting those tires. It appears that for a lot of companies in the industry there was a substantial impact, particularly in northern California. Newer companies were popping up and taking the tires for less and then exporting them rather than putting them in the recycling stream.”

Tire recyclers can use ambient or cryogenic processes for size reduction. Generally, tires are size-reduced down to a 1” size via cutting in the ambient reduction process and this material becomes feedstock for a cryogenic process where the material is then frozen and shattered, and finally screened out to finished sizes.

Loyd continued, “In North America there seems to be an excess of crumb rubber material available in the marketplace. Any time you have more supply than demand it creates pricing pressure. That’s something the industry has to deal with. I don’t know how much the economic downturn impacted crumb rubber usage or whether that will change as the economy improves. It has certainly had an impact on the tire recycling industry.”

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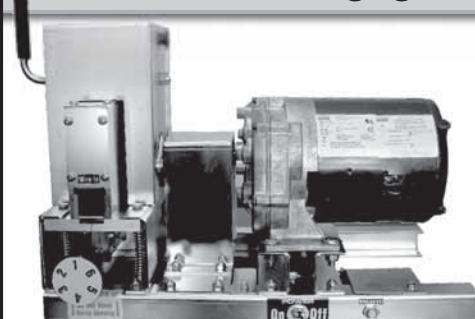
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NYSAR3's grant program to include colleges

The New York State Association for Reduction, Reuse and Recycling (NYSAR3) has created a grant program that will enable the institutional members of the organization's College Council to apply for grants of up to \$1,000 to support innovative projects aimed at "initiating, improving, or expanding source reduction, reuse, or recycling programs on campus."

The grant program will be competitive and NYSAR3 will begin accepting grant applications and project proposals from its College Council members after April 15. Deadline for submitting applications is October 9, 2013, with the first grants scheduled to be announced at the organization's fall recycling conference in Cooperstown, New York, in November.

Proposals should be for projects that generate interest and awareness and encourage student, faculty, and staff participation. Projects should also be transferable and adaptable by other colleges and universities and should include an education component. Grant recipients must also agree to provide quantifiable documentation on the impact the grant had on the targeted program.

The College Council is one of four special NYSAR3 programs, along with the Organics Council, the Buy Recycled Council, and the GoGreen Initiative for K-12 schools in New York State.

In the end, it's not going to matter how many breaths you took, but how many moments took your breath away.

—Shing Xiong

New Jersey participates in reuse market

In conjunction with six other north-eastern states, the New Jersey Department of Environmental Protection announced New Jersey's participation in the newly launched Reuse Marketplace, a web-based resource aimed at exchanging reusable items, reducing waste, saving money and capturing value of excess or unwanted items by finding new owners for these products, equipment or materials.

Reuse Marketplace (www.reuse-marketplace.org) is a free regional website that can be tapped by businesses, municipalities, school districts and other institutions and non-profit organizations for posting or obtaining reusable, surplus or barely used materials.

"Reuse is an environmental and economic tool that keeps goods and materials out of the waste stream," said Jane Kozinski, DEP assistant commissioner of environmental management.

Participating states include New Jersey, Connecticut, Delaware, Massachusetts, New York, Rhode Island and Vermont. Participating businesses include All American Waste, Casella Waste Systems, Global Plastics Recycling, GreenCycle, Harvest Power, Wheelabrator Technologies and Williamantic Waste Paper Company.

Reuse members create free accounts and post listings for available items. They also may post detailed wanted listings, specifying the types of items they

need. While anyone can browse and access posted items, only members can post items to offer. Actual exchange transactions are carried out directly between interested parties.

The Marketplace includes more than 30 categories of items ranging from agricultural to textiles, plus some 60 related subcategories. Items currently on offer at the site to buy, sell, trade or give away include slate roofing tiles, overhead garage doors, televisions, office supplies, clean fill and even a modular medical building, among many others.

The Reuse Marketplace site administrator is the Northeast Recycling Council (www.nerc.org), a regional non-profit group.

Keep America Beautiful names school champs

Keep America Beautiful named the winners of "Recycle-Bowl," the first nationwide recycling competition for elementary, middle and high school students. Recycle-Bowl, sponsored by Nestlé Waters North America (NWA), reached more than 900,000 students across America with schools in all 50 states and the District of Columbia competing.

First place went to Taylor Primary in Kokomo, Indiana, where students recycled 47 lbs. of waste per child. If all students in America recycled at the rate of this year's Recycle-Bowl competitors, approximately 2.4 million tons of material would be diverted annually from landfills. That would be equivalent to the weight of 201,135 school buses.

From October 15 through November 9, 2012, participating schools recy-

pled as much as possible. The total amount of recyclables recovered during the 2012 competition added up to 4.5 million lbs., which in turn prevented the release of nearly 1,717 metric tons of carbon equivalent. In real-world terms, this reduction in greenhouse gases is equivalent to the annual emissions from 334 passenger cars.

The competition offered a \$1,000 prize to the school in each state that collected the most recyclable material per capita. A national champion was then chosen from among the statewide winners to receive an additional grand prize of an another \$1,000 and a \$2,500 store credit from Busch Systems to purchase recycling bins, earning a total of \$4,500 in prize money for the Kokomo, Indiana school.

"Starting with preschool, our students are introduced to the importance of recycling. Through each grade level they take on more recycling responsibility," said Teri Stokes, principal of Taylor Primary School. "Recycling comes naturally. It's just part of our everyday routine at school."

A separate national category featured schools that allow drop-off material from the surrounding community, offering a first-place \$1,000 prize, a second-place \$750 prize and a third-place \$500 prize. First place in the national drop-off category went to Lynden Christian School in Lynden, Washington. Its per capita rate was 550 lbs.

For a full list of statewide winners, view this article on www.AmericanRecycler.com.

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February paper reports

The American Forest & Paper Association released its February 2013 U.S. paper reports.

Containerboard

Containerboard production fell 10.2 percent over January 2013 and 1.7 percent over the same month last year. However, the month-over-month average daily production decreased just 0.5 percent. The containerboard operating rate for February 2013 lost 0.5 points over January 2013, from 97.1 percent to 96.6 percent.

Boxboard

Total boxboard production decreased by 1.9 percent compared to February 2012 and decreased 5.6 percent from January 2013. Unbleached Kraft Boxboard production decreased over the same month last year and decreased compared to the previous month. Total solid bleached boxboard & liner production decreased compared to February 2012 and decreased compared to January. The production of recycled boxboard decreased compared to February 2012 and decreased when compared to January 2013.

Printing-writing paper

According to the report, total printing-writing paper shipments were down 12 percent from February 2012.

Additional key findings:

•February shipments of coated free sheet (CFS) papers decreased 5 percent

compared to February 2012, with year-to-date CFS shipments up less than 1 percent relative to 2012.

•Uncoated free sheet (UFS) papers shipments of 701,700 tons in February were 10 percent below the same period last year, with imports increasing 14 percent year-over-year in January.

•February uncoated mechanical (UM) paper shipments decreased 22 percent when compared to February 2012.

•February shipments of coated mechanical (CM) decreased 20 percent compared to February 2012 to 218,900 tons, the lowest total since before 1995.

•January shipments of coated mechanical (CM) decreased 9 percent compared to January 2012 to 255,900 tons.

Kraft Paper

Total Kraft paper shipments were 119 thousand tons, a decrease of 15 percent compared to January 2013. Bleached Kraft paper shipments increased year-over-year 13 percent while unbleached Kraft paper shipments decreased 13 percent year-over-year. As a result, total Kraft paper shipments are down slightly less than one percent compared to the first two months of 2012. Total month-end inventory decreased 3 percent to 71.3 thousand tons this month compared to January 2013 month-end inventories.

Genesis expands Texas dealer network

Genesis Attachments named Bane Machinery as its exclusive dealer in north-east Texas.

With locations in Dallas, Ft. Worth and Tyler, Bane Machinery is a multi-generation dealership representing leading

manufacturers including Kobelco, New Holland Construction, Link-Belt, Kawasaki and Sennebogen.

Bane Machinery will offer the full line of Genesis products and provide service, rental and product support.

Wind energy to power Nestle Waters facility in California

Nestle celebrated its first wind energy project with the hosting of two wind turbines at its Nestle Waters North America (Nwana) bottling plant in Cabazon, California. The turbines will provide wind power for 30 percent of the facility where the company produces its Arrowhead and Nestle Pure Life brand bottled waters.

Nwana chose this location for its turbines because of the high wind potential. The two 1.6 megawatt GE wind turbines in Cabazon will produce an average of 12,900,000 kilowatt hours annually, powering the equivalent of 1,100 U.S. homes.

Nwana partnered with the Morongo Band of Mission Indians and Foundation Windpower to site and host and commission the wind turbines. Foundation

Windpower installs, operates and owns the wind turbines, and its associated environmental attributes, and Nwana purchases the power produced directly and receives renewable energy credits from Foundation Windpower, reducing the company's power needs from the Southern California power grid.

The installation of the wind turbines in Cabazon is part of Nwana's long-term renewable energy plan. Nwana was the first beverage manufacturer in the country to build U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) certified plants.

Nwana produces 98 percent of its single-serve PET plastic bottles on-site at company bottling facilities, saving 6.6 million gallons of fuel per year through reduced transportation requirements.

King County's Take it Back Network to includes mattresses

In an effort to reduce the number of used mattresses that are going to its landfill and taking up space, when they could instead be recycled and their components reused, King County's Take it Back Network has added two new partners as inaugural mattress recycling members.

A Plus Removal & Recycling and Rubbish Works join a large and growing number of retailers, repair shops, non-profit organizations, waste haulers and recyclers that provide consumers with safe and convenient reuse and recycling options for hard-to-recycle products.

Each year, up to 40 million mattresses with box springs are disposed in the U.S., and a single mattress can take up as much as 40 cu. ft. of landfill space. In 2011, King County received about 90,000 mattresses weighing more than

3,000 tons for disposal at its transfer stations and landfill.

"Mattresses have a life span of about 11 years and take up a huge amount of space in the landfill," said Shawnda Anderson, director of operations for Rubbish Works. "This is why we try to recycle everything possible – from furniture to mattresses. Joining the Take it Back Network is a great way of demonstrating our commitment to provide sustainable end-of-life options for mattresses to Seattle-area customers."

Mattresses are made of several recyclable materials including polyurethane foam, steel, cotton and wood, which, when separated, can be used in a variety of end-market applications including auto parts, insulation and carpet padding. Mattress recycling reduces waste in the landfill and generates local jobs.

Timken acquires Smith Services

The Timken Company acquired the assets of Smith Services, Inc., based in Princeton, West Virginia.

In 2012, Smith Services reported sales of approximately \$17 million. The company provides electric motor repair and field technical services to end-users, serving a wide variety of markets.

Carl Rapp, vice president of Timken Industrial Services, expects this new acquisition to bring the company additional motor repair services as well as a new regional service center location from which to grow its existing gearbox and bearing repair services.

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C&D recyclers honored

The Construction Materials Recycling Association (CMRA), named the organization's slate of 2013 Industry Award Honorees. CMRA is a national trade organization that promotes and defends the environmentally sound recycling of the more than 325 million tons of recoverable construction and demolition (C&D) materials that are generated in the United States annually. The 2013 awards were presented at the C&D World Conference held in April. The award recipients include:

Member of the Year

Michael Dinneen, Agg Rok Materials, Grove City, Ohio. The Member of the Year is selected based on extraordinary service to the mission of the organization and the C&D recycling industry over the previous 12-month period.

C&D Recycler of the Year

Cherry Companies, Houston, Texas. The C&D Recycler of the Year Award honors those recycling operations in the C&D recycling industry that have made an extraordinary contribution to the industry.

The Inaugural Class of the C&D Recycling Hall of Fame 2013 Honorees include:

- Mason Brown, Big City Crushed Concrete, Dallas, Texas.
- William Gupta, General Kinematics, Crystal Lake, Illinois.
- Anthony Lomangino, Southern Waste Systems/Sun Recycling, Palm Beach, Florida.
- Lou Sanzaro, Ocean County Recycling (posthumously), Toms River, New Jersey.

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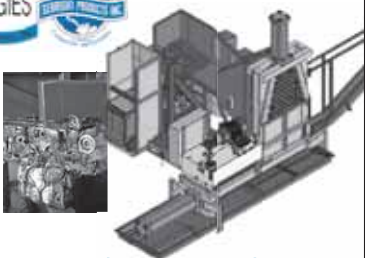
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ELECTRONICS

Awards given to e-Cycle Wireless

E-Cycle LLC, a mobile buyback and recycling company, has earned multiple Global Business Excellence Awards for its service offering and its commitment to adhering to the highest standards of environmental responsibility.

The Global Business Excellence Awards, based in the United Kingdom, recognize business excellence across all sectors, including private and public companies as well as charity organizations.

E-Cycle provides wireless buyback, recycling and data deletion services for a range of customers. While the company's main focus has been on delivering services to businesses and organizations, it recently launched an online tool that gives consumers an easy option to recycle their devices in the most secure, environmentally responsible and cost-effective manner.

In issuing the outstanding service award, the Global Business Excellence Awards stated, "e-Cycle of Ohio, USA has developed the perfect solution for the recycling of the millions and millions of discarded wireless mobile devices that are thrown away every year in the U.S. It buys old devices from companies, rebuilds the ones in working order for the third-world market and disposes of the remaining ones in an environmentally-friendly way. By cutting the telecom budget for companies, protecting the environment and helping poorer countries get access to mobile devices, e-Cycle keeps everyone happy."

Computer company owner sentenced for crimes

A Michigan computer company and its owner were sentenced for trafficking in counterfeit goods and services and violating environmental laws.

U.S. District Judge David M. Lawson sentenced Mark Jeffrey Glover, to 30 months in prison and a \$10,000 fine, and his company, Discount Computers, Inc. (DCI), a \$2 million fine with \$10,839 in restitution for trafficking in counterfeit goods and services. DCI was also sentenced for storing and disposing of hazardous waste without a permit. Glover pleaded guilty to the charges on his behalf and that of his company in October 2012.

DCI, headquartered in Canton, Michigan, with warehouses in Maryland Heights, Missouri, and Dayton, New Jersey, operated as a broker of used electronic components, including computers and televisions. DCI resold working and disassembled broken items, selling them for scrap. A large part of DCI's business involved exporting used cathode ray tube (CRT) monitors to countries in the Middle East and Asia.

Egypt prohibits the importation of computer equipment which is more than five years old. To evade this requirement, all three DCI locations replaced the original factory labels on used CRT monitors with counterfeit labels, which reflected a more recent manufacture date. Over a 5 year period, DCI sent at least 300 shipments to Egypt, with a total shipment value of at least \$2.1 mil-

lion, constituting more than 100,000 used CRTs monitors.

Under federal law it is illegal to knowingly use a counterfeit mark on or in connection with goods and services for the purpose of deceit or confusion. It is also illegal to store and dispose of hazardous waste, which includes certain electronic waste, or e-waste, without a permit. Glass from older CRT monitors is known to contain levels of lead, which is toxic hazardous waste. When deposited in a landfill the lead can leach out and contaminate drinking water supplies.

As a result, these types of monitors are required to be disposed of as hazardous waste under the Resource Conservation and Recovery Act. By exporting older CRTs with fraudulent manufacture dates, Mark Jeffrey Glover sent a large quantity of older e-waste overseas which was subjected to improper recycling, increasing the potential for environmental and human exposure to hazardous materials.

E-waste is a global concern because used electronic equipment contains more than 1,000 different substances including toxic heavy metals and organics that, if disposed of improperly, can cause significant pollution problems. Improper e-waste disposal is common in third world and developing countries because they are ill equipped for proper recycling, refurbishing, and disposal. It is also common in these countries to find black-market recycling groups that extract valuable metals from e-waste without regard for the safety of their impoverished employees who are exposed directly to toxic materials.

The case was prosecuted by the U.S. Attorney's Office in the Eastern District of Michigan by Assistant U.S. Attorney Jennifer Blackwell. The case was investigated by agents of the U.S. Environmental Protection Agency's Criminal Investigation Division and U.S. Department of Homeland Security-Homeland Security Investigations, Detroit.

4th Bin becomes certified recycler

The 4th Bin, a New York City e-waste recycler, has been awarded official e-Stewards Certification, becoming the first and only e-waste recycler in the city to hold this level of certification.

With a strong commitment to e-Stewards values and best practices, the 4th Bin adheres to the world's highest standards for socially and environmentally responsible recycling, setting a new precedent for eco-conscious behavior across New York City.

The Basel Action Network (BAN), the creators of the e-Stewards standard and certification program, provides constant oversight on all levels of the program ranging from recyclers, auditor training, certification, and accreditation bodies, to ensure on-going integrity of the certifications. e-Stewards Certification enables individuals and organizations who dispose of their old electronic equipment to easily identify recyclers that adhere to the highest standard of environmental responsibility and employee protection. The certification is open to electronic recyclers, refurbishers and processors in all developed countries.

ECOVanta to provide e-waste recycling to Lancaster County

ECOVanta, the electronic waste recycling subsidiary of Covanta Energy Corporation, partnered with the Lancaster County Solid Waste Management Authority (LCSWMA) to provide e-waste recycling services for LCSWMA's Household Hazardous Waste (HHW) Facility, located in Lancaster County, Pennsylvania. ECOVanta will transport the HHW Facility's e-waste, including computers, monitors, mobile phones, printers and televisions to its Philadelphia facility for dismantling, shredding or aggregating for reuse and recycling.

ECOVanta is among an exclusive group of national e-waste recyclers that hold both e-Stewards and Responsible Recycling (R2) environmental certifications, the industry's premier endorsements signifying responsible electronics disposal.

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PLASTICS

SPE names recipients of 2013 GPEC environmental awards

The Society of Plastics Engineers (SPE) has named the recipients of the 2013 Environmental Stewardship Awards.

The awards recognize companies and institutions that have demonstrated environmental leadership and excellence through significant achievements.

The recipients of the 2013 GPEC Awards are listed below.

•Hilex Poly Co. LLC (Hartsville, South Carolina): Plastics Recycling Technologies and Applications Award for investing in a sustainable solution for plastic bags and films by creating and operating the largest closed loop recycling plant in its industry.

•MCS Industries, Inc. (Easton, Pennsylvania): Plastics Recycling Technologies and Applications Award for converting often difficult to recycle, post-consumer scrap materials such as expanded polystyrene foam packaging and large printer cartridges into designer picture frames.

•Interfacial Solutions (River Falls, Wisconsin): Plastics from Renewables Award for developing hyper-branching technology that effectively counteracts any foreseeable issues with molecular weight loss due to the hydrolytic degradation of polylactic acid during melt processing. This permits, for the first time, the possibility of repeated melt processing without pre-drying.

•Avery Dennison (Pasadena, California): Design for Sustainability Award for designing its Bottle-to-Bottle Portfolio for

PET Recyclability as a solution to address the impact of labels on PET bottle recyclability. Its newly developed pressure sensitive adhesive label products can help brands adhere to design for recycling guidelines so that their PET bottles can be easily collected and do not contribute to contamination and yield loss of the RPET supply.

•Infiltrator Systems Inc. (Old Saybrook, Connecticut): Chairman's Award for carrying out large scale recycling of waste plastics for innovative soil and water purification applications.

•Mondelez International, Inc. (Deerfield, Illinois): Daniel Eberhardt Environmental Stewardship Award for having cut packaging by 45,000,000 lbs., increased sustainable sourcing of agricultural commodities by 36 percent, eliminated 20 million kilometers of travel miles, emissions by 6 percent, water use by 3 percent and manufacturing waste by 18 percent.

•General Motors (Detroit, Michigan): Daniel Eberhardt Environmental Stewardship Award for commitment to continuously reducing the environmental impact of its vehicles and facilities. Currently, the company recycles 90 percent of its global manufacturing waste and has 103 landfill-free facilities, with a goal to increase that number to 125 sites by 2020. This effort has also helped generate an estimated \$1 billion in reuse and recycling revenue from its byproducts and eliminate 10 million metric tons of carbon emissions in 2011.

Recycling of plastic bags, wraps and film rises to 1 billion pounds

The recycling of plastic film climbed 4 percent to reach 1 billion pounds annually in 2011 for the first time, according to a national report. The category of "plastic film" includes plastic bags, product wraps and commercial shrink film. The report, developed by Moore Recycling Associates, Inc. on behalf of the American Chemistry Council (ACC), noted that the recycling of plastic film has grown 55 percent since just 2005.

According to the report, approximately 58 percent of U.S.-recovered postconsumer film was consumed domestically in 2011 – up from 53 percent in 2010 – largely due to growth in the plastic and composite lumber industry, the primary market for this material.

The composite lumber industry showed a 120 million lb. increase in consumption from 2010 to 2011 to reach 55 percent of the total market for recovered film. Consumption of postconsumer plastic film by the film and sheet industry, the second largest market for this material, held steady at 100 million lbs., or 16 percent of the total market.

Recycled polyethylene film is used to make a range of products, including durable plastic and composite lumber for outdoor decks and fencing, home building products, garden products, crates, pipe and new film packaging like plastic bags.

Recovery data in the report, "2011 National Postconsumer Plastic Bag & Film Recycling Report," is based on a survey of 19 U.S. and 3 Canadian processors of postconsumer film along with 37 companies that export this material.

Through ACC's Flexible Film Recycling Group (FFRG), which represents resin producers, film converters, brand owners and recyclers, the industry is actively working to increase both commercial and consumer participation in the film recycling process.

There are currently more than 15,000 locations where consumers can take their used polyethylene bags and wraps to be recycled, primarily at large grocery and retail chains across the United States.

I requested identification from a customer who had just written a personal check for her purchase. After fumbling through her purse, she presented me

with what she said was the only thing that bore both her name and address.

It was a notice of insufficient funds from her bank.

ECO Plastics hits milestone

Continuum Recycling, the recycled-PET joint venture between Coca-Cola Enterprises (CCE) and ECO Plastics, has celebrated sorting a quarter of a billion bottles. The landmark comes some nine months after the facility was opened by then Waste Minister Lord Taylor of Holbeach, and confirms the stellar performance of the partners in ramping up production.

Located on the site of ECO Plastics' existing facility in Hemswell, Continuum is now responsible for processing more than 50 percent of the UK's bottle grade rPET plastic. The success of the facility

has allowed CCE to meet its commitment to use 25 percent rPET in all its bottles by the end of 2012, an industry first.

The plant also played a key part in Coca-Cola's efforts to recycle all of the plastic bottles used during the Olympics and Paralympics, with some 15 million collected and returned to shelves as part of 63 million new bottles during a process that lasted as little as 6 weeks.

CCE and ECO Plastics estimate that the plant will save around 33,500 tons of CO2 per year, the equivalent of taking over 15,715 cars off the road.



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INTERNATIONAL
Orient Paper prepares for renovation of production line

Orient Paper, Inc., a manufacturer and distributor of diversified paper products in North China, is preparing for a comprehensive environmental protection inspection, which is part of a large-scale special pollution inspection conducted by the local Xushui County government, in response to a series of environmental pollution incidents and public health crises in North China in recent months.

An executive order was issued by the government on February 26, 2013 to all manufacturers in a wide range of industries which operations have potential environmental impact. The multi-government agency inspection will examine all aspects of environmental protection practice, especially waste water discharge.

During the inspection period, Orient's water treatment facilities and production activities may be interrupted.

Separately, Orient Paper has begun the process of finalizing the renovation plan on its 150,000 tons per year corrugating medium production line. The width of the machine will be expanded from 3.2 meters to 5.6 meters with a new production capacity of 250,000 tons per year.

Zhenyong Liu, chairman and chief executive officer of Orient Paper, commented, "We will fully cooperate with the government's inspection and are confident that we will be able to comply with all their rigorous tests. While we are excited about the ongoing tissue paper and production line renovation projects which will bring further growth to our business, we remain firmly committed to environmental protection and will place a top priority in undertaking all necessary procedures and systems to ensure a sustainable business for Orient Paper."

Solar plant to be built in Greece

Conergy is building its next 500 kilowatt solar power plant in Molai in the Greek province of Laconia, just a few kilometers south of the famous ancient city of Sparta on the Peloponnese peninsula.

This is the fifth Conergy installation to be announced in Greece since the beginning of the year. Conergy is the main contractor for the 20,000 square meter turnkey power plant for a local customer and private investor. The system supplier is responsible for the engineering and layout of the plant, along

with the supply of the components and the construction.

Over 2,000 Conergy PowerPlus modules on Conergy SolarLinea mounting systems will generate 659,000 kilowatt hours of clean energy each year. 30 Conergy IPG 15T inverters will then feed this electricity into the local grid. In this way, the solar park will produce enough power to supply 187 households – around one-fifth of the population of Molai. At the same time, it will save on the production of around 336 tons of CO2 emissions each year.

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RUBBER

Proposed law will prohibit sale of unsafe used tires

A Texas Senate committee is considering a bill to prohibit the sale of unsafe used tires that are readily available and pose a significant risk to motorists.

SB 459, introduced by Sen. Jose Rodriguez (D), is supported by the Rubber Manufacturers Association (RMA), the national trade organization for tire manufacturers. RMA, testified at the hearing and believes businesses should not be permitted to offer tires that are worn, damaged or exhibit other unsafe conditions.

"This legislation will help improve highway and motorist safety in Texas by addressing the sale of unsafe used tires," said Dan Zielinski, RMA senior vice president. "Safety is the highest priority for the tire industry and we support this legislation."

To demonstrate the problem and availability of unsafe used tires, RMA purchased several used tires from used tire stores in Texas. Each tire exhibited one or more conditions that are clearly unsafe: worn out, visible damage to the tread or

other portions of a tire, or improperly repaired.

"Unsafe used tires are readily available for sale across the nation," Zielinski said. "Any used tire is a risky proposition since it's impossible to know the service history of a tire used by someone else. But some businesses are compounding that problem by selling tires that anyone in the tire business should know are dangerous."

Tires worn to 2/32nds of an inch are considered bald and are dangerous. Such tires no longer provide sufficient grip on the road, particularly under wet conditions. Tires with damage exposing steel belts or other internal components threaten a tire's structural integrity. Improperly repaired tires can suffer loss of inflation pressure or have hidden damage that may contribute to tire failure.

RMA published an information bulletin on used tires several years ago. The group is currently advocating unsafe used tire legislation in Florida and Texas.

Bridgestone spent tire program hits one year anniversary

Bridgestone Americas, Inc.'s program, which falls under the company's "One Team, One Planet" environmental commitment, was launched during national Earth Day activities in Washington, D.C. in 2012 and supports their company's vision of a waste-free future for the tire industry.

When fully implemented, the multi-faceted "One Team, One Planet" Spent Tire Program will include a program for its company-owned stores, a voluntary program for its extended network of affiliated retailers and a community support program that provides spent tire collection for public space clean-up events.

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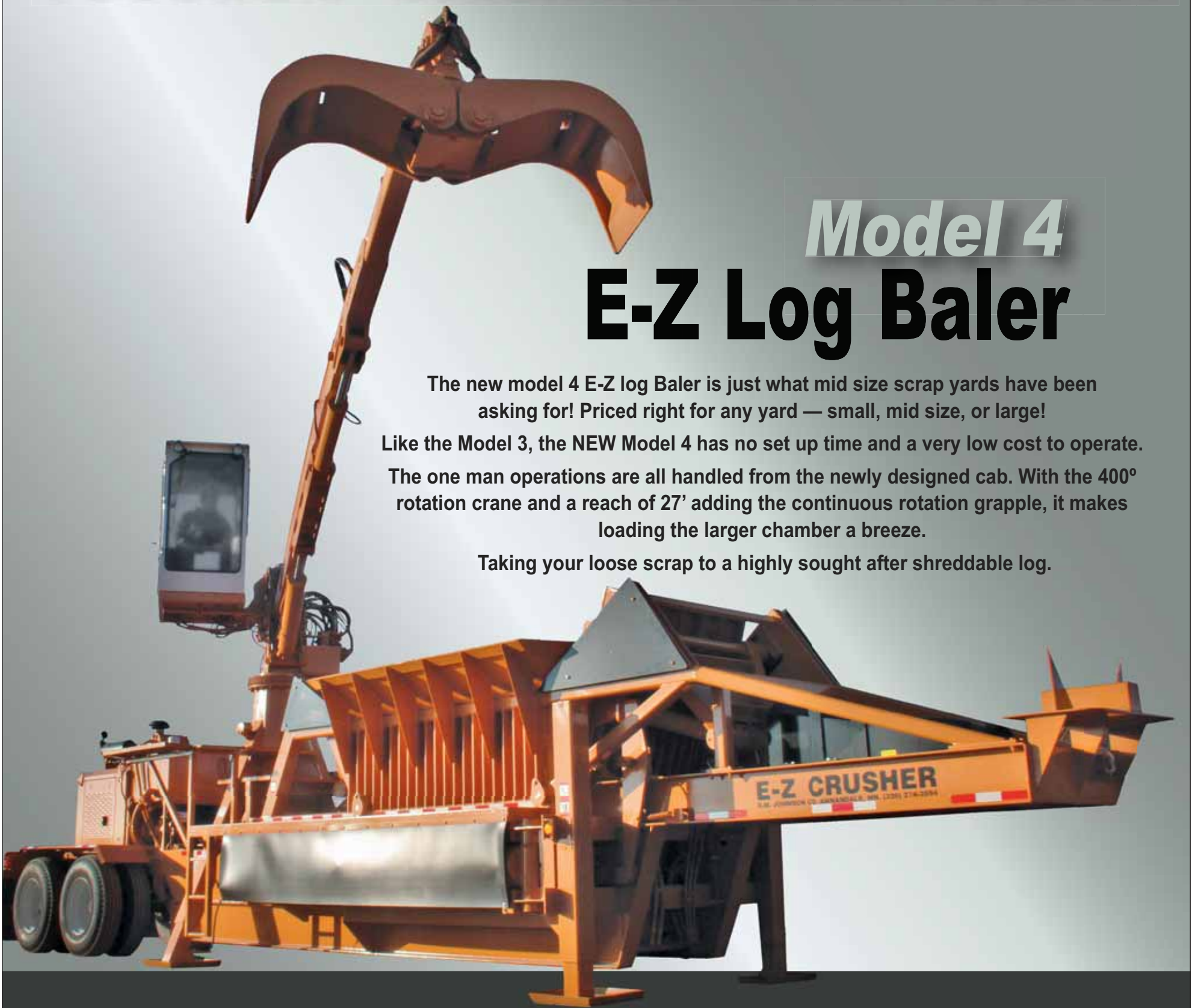
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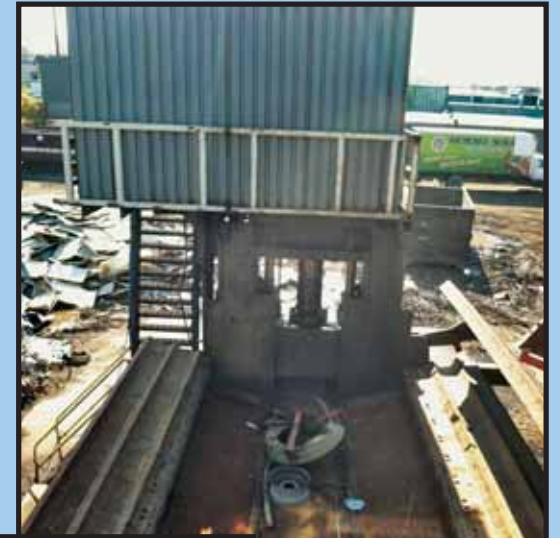
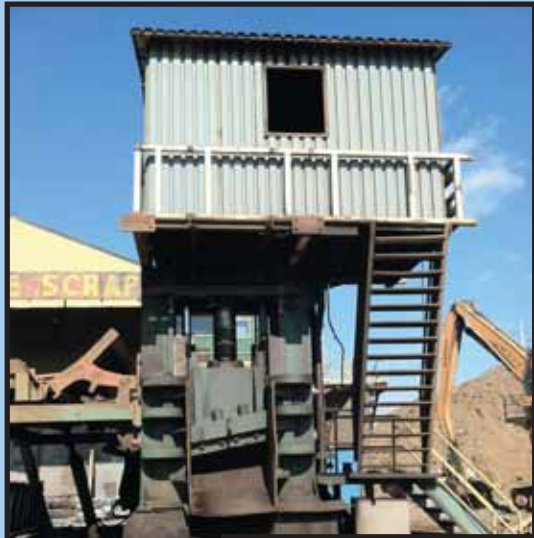
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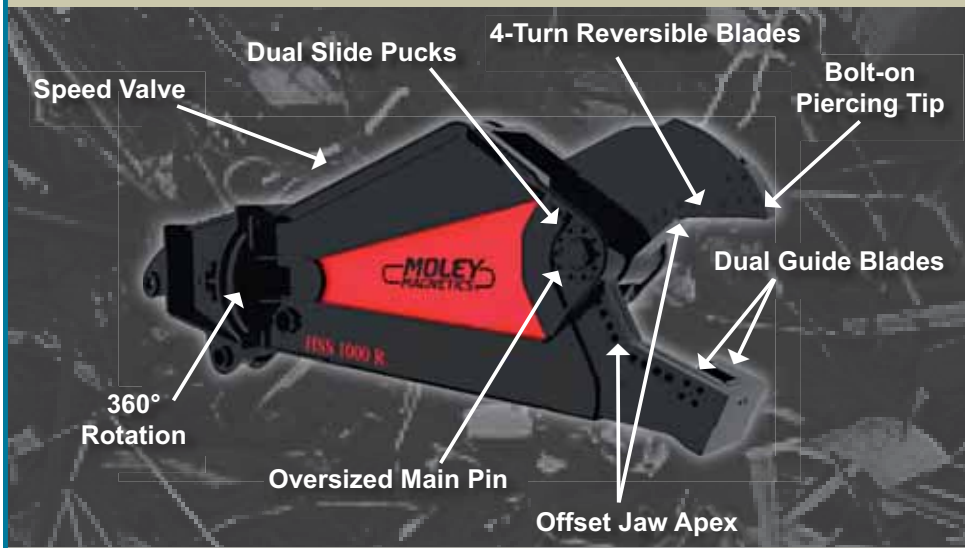


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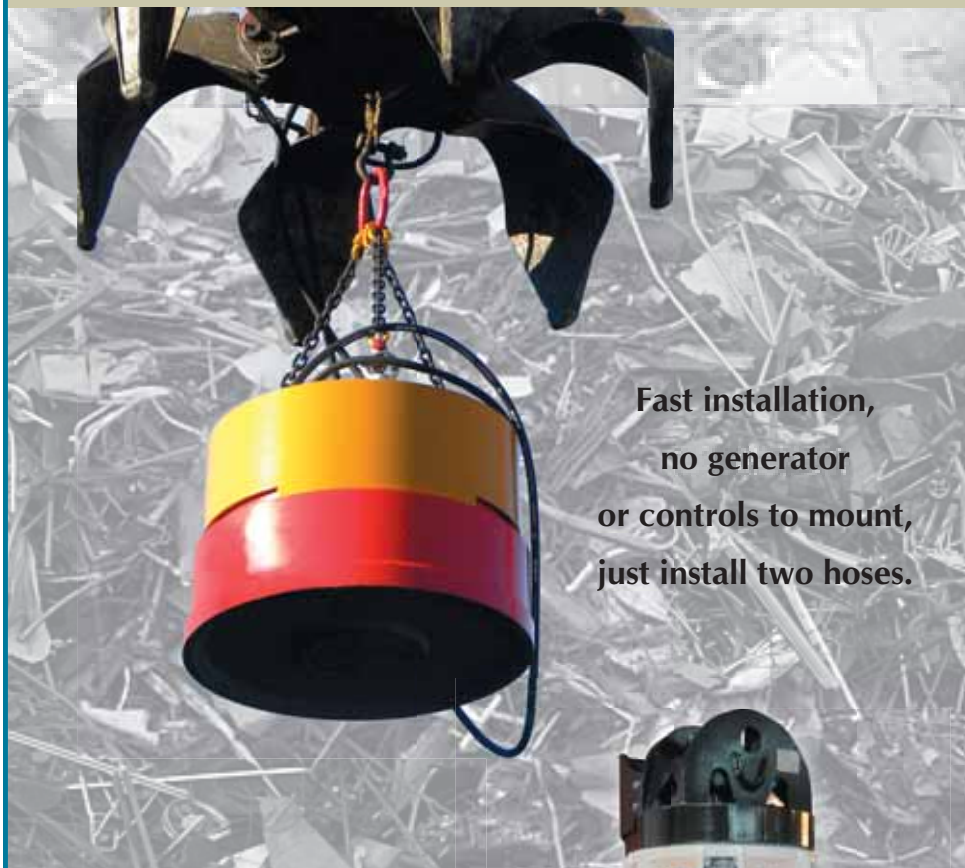
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METALS

Steel imports decrease by 7 percent in February

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)

	FEB 2013	JAN 2013	2013 Annual (est)	2012 Annual	% Change 2013 Annual vs. 2012
SOUTH KOREA	249	362	4,339	3,651	18.8%
CHINA	143	167	2,010	1,652	21.7%
JAPAN	126	139	1,671	1,931	-13.4%
TURKEY	114	135	1,616	1,347	20.0%
GERMANY	100	74	883	1,279	-31.0%
TAIWAN	71	42	499	833	-40.1%
INDIA	44	65	779	762	2.2%
All Others	972	1,160	11,979	14,372	-16.7%
TOTAL	1,819	2,143	23,775	25,826	-7.9%

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,441,000 net tons (NT) of steel in February, including 1,819,000 net tons (NT) of finished steel (down 7 percent and 15 percent, respectively, vs. January final data). Year-to-date (YTD) total and finished steel imports are 5,058,000 and 3,963,000 net tons (NT), respectively, down 9 percent and 8 percent vs. 2012. Finished steel import market share was an estimated 22 percent in February and is estimated at 23 percent YTD.

Key finished steel products with a significant import increase in February 2013 compared to January are cut lengths plates (up 44 percent) and plates in coils (up 24 percent). Major products with significant YTD import increases vs. the same period

last year include sheets and strip hot dipped galvanized (up 22 percent), wire drawn (up 17 percent) and line pipe (up 11 percent).

In February, the largest volumes of finished steel imports from offshore were all from Asia and Europe. They were South Korea (249,000 NT, down 31 percent), China (143,000 NT, down 15 percent), Japan (126,000 NT, down 10 percent), Turkey (114,000 NT, down 15 percent) and Germany (100,000 NT, up 36 percent). For 2 months of 2013, the largest offshore suppliers were South Korea (611,000 NT, down 7 percent), China (311,000 NT, up 65 percent), Japan (265,000 NT, down 14 percent), Turkey (249,000 NT, down 29 percent) and Germany (173,000 NT, down 4 percent).

Over breakfast one morning, a little boy stared intently at his grandfather. "Is something wrong?" asked the old man.

"No, Gramps. I was just wondering what position you play in football."

"What are you talking about?" laughed Gramps. "I'm too old to play football!"

"Dad said that when you kicked off, we'd be able to get a new car."

Scrap Metals MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$325.00	\$325.00	\$360.00	\$395.00	\$380.00
#1 Bundles	per gross ton	330.00	325.00	360.00	390.00	375.00
Plate and Structural	per gross ton	325.00	314.00	380.00	380.00	375.00
#1 & 2 Mixed Steel	per gross ton	315.00	310.00	360.00	365.00	360.00
Shredder Bundles (tin)	per gross ton	280.00	284.00	310.00	369.00	320.00
Crushed Auto Bodies	per gross ton	279.00	284.00	310.00	369.00	325.00
Steel Turnings	per gross ton	210.00	200.00	240.00	210.00	250.00
#1 Copper	per pound	3.08	3.00	3.20	3.03	3.14
#2 Copper	per pound	2.98	2.79	3.04	2.95	3.02
Aluminum Cans	per pound	.65	.60	.71	.70	.73
Auto Radiators	per pound	2.10	1.85	2.10	2.00	2.13
Aluminum Core Radiators	per pound	.62	.60	.72	.70	.71
Heater Cores	per pound	1.60	1.65	1.49	1.50	1.65
Stainless Steel	per pound	.64	.63	.71	.70	.66

All prices are expressed in USD. Printed as a reader service only.

DISCLAIMER: American Recycler (AR) collects pricing and other information from experienced buyers, sellers and facilitators of scrap metal transactions throughout the industry. All figures are believed to be reliable and represent approximate pricing based on information obtained by AR (if applicable) prior to publication. Factors such as grades, quality, volumes and other considerations will invariably affect actual transaction prices. Figures shown may not be consistent with pricing for commodities associated with a futures market. While the objective is to provide credible information, there is always a chance for human error or unforeseen circumstances leading to error or omission. As such, AR is not responsible for the accuracy or completeness of the information provided, or for outcomes arising from use of this information. American Recycler disclaims any liability to any person or entity for loss or damage resulting from errors or omissions, including those resulting from negligence of AR, its employees, agents or other representatives.

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METALS

Nucor reports reduced earnings for first quarter 2013

Nucor Corporation announced consolidated net earnings of \$84.8 million, or \$0.26 per diluted share, for the first quarter of 2013. By comparison, Nucor reported net earnings of \$145.1 million, or \$0.46 per diluted share, for the first quarter of 2012 and net earnings of \$136.9 million, or \$0.43 per diluted share, in the fourth quarter of 2012.

Nucor incurred a charge to value inventories using the last-in, first-out (LIFO) method of accounting of \$18.0 million (\$0.03 per diluted share) in the first quarter of 2013, compared with a charge of \$14.5 million (\$0.03 per diluted share) in the first quarter of 2012 and a credit of \$71.9 million (\$0.14 per diluted share) in the fourth quarter of 2012. Also affecting earnings in the first quarter 2012 was a non-cash gain of \$12.6 million (\$0.04 per diluted share) related to the recognition of state tax credits and the adjustment of tax expense to previously filed returns.

Nucor's consolidated net sales decreased 10 percent to \$4.55 billion in the first quarter of 2013 from \$5.07 billion in the first quarter of 2012 and increased 2 percent compared with \$4.45 billion in the fourth quarter of

2012. Average sales price per ton decreased 7 percent from the first quarter of 2012 and decreased 2 percent from the fourth quarter of 2012. Total tons shipped to outside customers were 5,706,000 tons in the first quarter of 2013, a 4 percent decrease from the first quarter of 2012 and a 4 percent increase over the fourth quarter of 2012.

The average scrap and scrap substitute cost per ton used during the first quarter of 2013 was \$379, a decrease of 15 percent from \$445 in the first quarter of 2012 and an increase of 2 percent compared to \$372 in the fourth quarter of 2012.

Overall operating rates at their steel mills decreased to 72 percent in the first quarter of 2013 as compared to 79 percent in the first quarter of 2012, but increased from 71 percent in the fourth quarter of 2012.

In February, Nucor's board declared a cash dividend of \$0.3675 per share payable on May 10, 2013 to stockholders of record on March 28, 2013. This dividend was Nucor's 160th consecutive quarterly cash dividend.

Chung Joon Yang named Steelmaker of the Year

Chung Joong Yang, chairman and chief executive officer of POSCO, will be named "Steelmaker of the Year" at AISTech 2013 – The Iron & Steel Technology Conference and Exposition, managed by the Association for Iron & Steel Technology (AIST). The Steelmaker of the Year Award is presented annually by AIST to recognize notable leaders for their contributions to the steel industry.

Chung is recognized as a visionary for the global steel industry for his knowledge of steel operations, dedication to safety, awareness to secure raw materials, enthusiasm to incorporate new technologies, foresight to expand POSCO's foreign presence, and prudent strategy to promote mutual growth with steel-consuming industries. Chung Joon Yang was elected chairman and chief executive officer of POSCO in February 2009. Prior to his election, he was president and chief executive officer of POSCO Engineering & Construction. His previous positions included president and chief executive officer (2007 to 2008), senior executive vice president (2006 to 2007), general superintendent – Gwangyang Works (2004 to 2006) and

head – POSCO Europe (1999 to 2003). Since October 2007, Chung has been serving as chairman of the Korea-Australia Business Council. He was elected as a member of the National Academy of Engineering of Korea (2008) and was appointed president (2011). He served as chairman of the Korea Institute of Metals & Materials (2008 to 2009) and was appointed vice president of the Korea International Trade Association and vice chairman of the Federation of Korean Industries (2009). Since March 2009, Chung has served as chairman of the Korea Iron and Steel Association and as a member of the executive committee of the World Steel Association. Chung's numerous awards include, among others, the Gold Tower Order of Industrial Service Merit (2007, Korean government), Top chief executive officer (2009, Maeil Business Weekly), Korea's Most Admired chief executive officer (2010, Seoul Economic Newspaper), chief executive officer of the Year (2012, Korea Management Association) and the Global chief executive officer of Korea (2012, Forbes Korea). Mr. Chung exemplifies the remarkable spirit that is POSCO.

March SIMA import permits down 3 percent

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of March total 2,541,000 net tons (NT). This was a 3 percent decrease from the 2,609,000 permit tons recorded in February but up by 4 percent from the February preliminary imports total of 2,441,000 NT. Import permit tonnage for finished steel in March was 2,012,000, up 11 percent from the preliminary imports total of 1,819,000 in February. The estimated finished steel import market share in March was 23 percent.

Large increases included reinforcing bars (up 50 percent), oil country goods (up 33 percent) and sheets and strip all other metallic coatings (up 30 percent).

In March, the largest finished steel import permit applications for offshore countries were for South Korea (293,000 NT) and Japan (170,000 NT).

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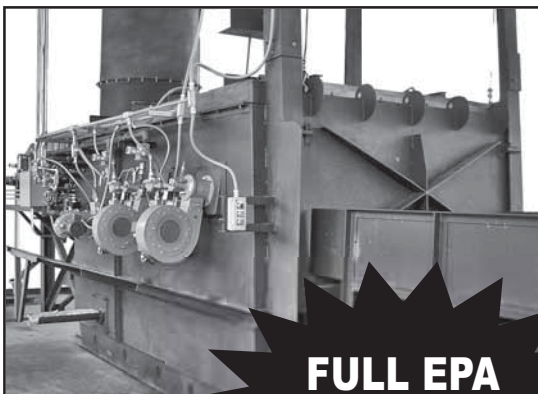
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SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

Tips in dealing with your banker

Learn from the tips in these continuing articles.

Tip No. 4 – Utilize note payable shareholder equity and taxes

For a small-business owner whose company needs capital, the common response is often to get a loan. However, for those who are in a position to do so, there are certain advantages to putting personal capital into the company in the form of a loan.

The capital can be loaned as a note payable to the shareholder. You already paid taxes on the money when you earned it and putting it into your company as capital would mean that it would be taxed a second time if you took the money out as a distribution. If you make the money available as a loan, it's a good idea to charge interest, although the IRS does have strict guidelines on that. However, if you make it a loan, the bank may require you to subordinate it, which means you agree not to pay yourself back until you have paid the bank back or it gives you permission. This means your money wouldn't be accessible if you needed it.

When the money is given as a loan, those dollars won't be taxed when they're repaid to you unless the IRS decides the payout is a dividend and not a loan payment. (This is where a good accountant can help you navigate through potential traps.)

Here's an example of why this makes good business sense. Let's say that you, the business person, have \$100,000 in a personal savings account. Meanwhile, you own a company that owes the bank \$100,000.

Rather than let the money earn marginal interest in the bank, a better use of that money would be to loan it to your company. Charge your company the same interest rate that the bank would charge, whether it's 7, 9 or even 10 percent.

Suddenly, that money from your savings account is working harder for you. It's making money, because you're earning the interest that would have gone to the bank. Just by looking at the bottom line it's obvious that this is a much better use of the money; invest it in your own company and make some money off of it!

Not everyone wants to do this. In some cases, individuals might want the

liquidity of the \$100,000 that they have in savings. And the banks will perceive the money as liquidity.

Most lenders will view shareholder debt as capital, if you aren't paying yourself back. To make the optics of the balance sheet look better, show it under long-term liabilities as the last item or create a separate long-term liability section and put it last – just before the owner equity section. The lender or examiner may treat it as capital, which improves the fundamentals of your statement.

Tip No. 5 – Use cost allocation to your benefit on real estate construction and even real estate purchases

It's important to understand how to use cost allocation on new construction or even on a current building being purchased, if possible. To do this effectively, you need to find an accounting firm or a specialist that can do it well.

When you construct a building, the IRS allows you, as the owner, to take depreciation on most of it for 30 years. Some of the other assets – such as the parking lot, the fences, and the like – can be depreciated for 10 years.

Deeper in the code, you'll find the depreciation allowances on such things as site lighting (five years). Certain types of doors, walls and fixtures are listed as five-year or seven-year assets.

For a business owner, it's extremely valuable to have an accountant who understands cost allocations and can help leverage them. This allows you to get more depreciation early, which means you reduce your reportable income without affecting your cash flow.

This is a non-cash expense, so it's a very good way to save money by reducing your taxes in the early years. Another thing to consider is that real estate is unlike any other asset. Every other asset you need for your business is going to depreciate. And in most cases, such as computers and company cars, that depreciation is very real. Those assets are going to wear out and eventually they'll need to be replaced.

Real estate is the one area where depreciation is less real, especially on newer property. Even though your building may depreciate, in most cases, inflation or the increased value of the property will offset the depreciation.

AUTOMOTIVE

GM earns recognition for landfill-free program

General Motors (GM) has been recognized for its environmental leadership by the Society of Plastic Engineers with an award acknowledging the company's successful zero-waste program.

The Daniel Eberhardt Award for Environmental Stewardship is given to companies that make extensive use of recycled plastics in producing automotive interior components, and achieve large reductions in waste going to landfills. The award was presented at the 2013 Global Plastics Environmental Conference.

Building upon the company's commitment to send as little waste to landfills as possible, GM was recognized for recycling more waste from its worldwide facilities than any other automaker, and building a business case for zero waste.

The company has a number of requirements in place that define success for its landfill-free programs. These

rules have led to unique projects within the GM zero-waste portfolio, including converting booms from the Gulf of Mexico oil spill into parts for the Chevrolet Volt, and turning scrap Volt battery covers into nesting boxes.

Other GM recycling projects include:

- Recycling cardboard packaging into Buick Verano and Lacrosse headliners to provide acoustic padding.

- Recycling test tires into the manufacturing of air baffles for a variety of GM vehicles.

- Mixing plastic caps that protect vehicle parts during shipment with other post-consumer plastics to make air deflectors for Chevrolet Silverado and GMC Sierra pickup trucks.

GM announced last year that it had passed the century mark in landfill-free facilities, recycling or reusing 2.6 metric tons of waste at 105 facilities worldwide.

Liberty Tire, NASCAR Green partner

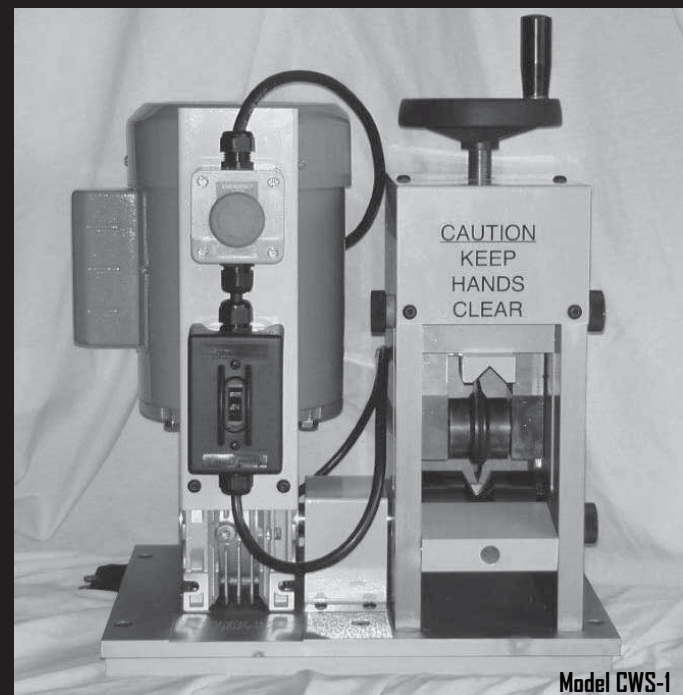
In conjunction with the NASCAR Green Clean Air Tree Planting Program™ Delivered by UPS, an initiative that will neutralize the carbon emissions of all of the racing in NASCAR's three national series, Liberty Tire Recycling will provide GroundSmart Mulch™ that will enhance the landscaping of trees

that are donated to areas of need throughout the country.

Additionally, Liberty Tire Recycling products, such as rubberized asphalt, will be used to repave racetracks and parking lots at NASCAR Home Track racetracks across the country.

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AUTOMOTIVE

Ford to cut waste-to-landfill by 2016

Ford's new five year global waste reduction strategy calls for a 40 percent per vehicle reduction in the amount of waste sent to landfill between 2011 and 2016 – equal to just 13.4 pounds per vehicle worldwide

Cutting waste-to-landfill at Ford's Van Dyke Transmission Plant has always been important to workers there, but they weren't satisfied until last fall, when a small, diligent local committee played a major role in solving a nagging 10 ton problem.

The solution – a way to keep 10 tons' worth of 8'-long, 350 lb. fabric coolant filters from being landfilled monthly – means the Van Dyke facility is Ford's first North American zero waste-to-landfill transmission plant and now diverts a total of 15 tons of waste-from-landfill monthly.

Under the plan, waste-to-landfill will drop to just 13.4 pounds – or by 40 percent – per vehicle by 2016.

The comprehensive strategy covers all angles of Ford's waste reduction plans – from working with global suppliers to use more eco-friendly packaging, to enabling employees such as those at Van Dyke to play an active role in coming up with ways to help Ford reach its goals. Even kitchen waste is addressed.

There can also be financial benefits. In 2012, Ford generated \$225 million in revenue through the recycling of 568,000 tons of scrap metal in the U.S. and Canada alone.

The new strategy builds on the success the company saw between 2007 and



Ford's new five-year global waste reduction strategy calls for a 40 percent per vehicle reduction in the amount of waste sent to landfill between 2011 and 2016 – equal to just 13.4 pounds per vehicle worldwide.

2011, when the amount of waste sent to landfill per vehicle dropped from 37.9 to 22.7 pounds – a 40 percent reduction. Reductions were accomplished through the launch of new initiatives and programs, such as paint waste recycling at facilities in Australia, Thailand, India and Spain.

Ford plans to continue reducing the amount of waste-to-landfill by emphasizing prevention, minimization, reuse and recycle of waste whenever possible. Specific actions include trying to reduce or eliminate the amount of certain kinds of waste from entering Ford facilities in the first place.

Ford's push to establish more zero waste-to-landfill facilities globally is one element of the company's commitment to reducing its environmental impact.

Other initiatives include:

- Greenhouse gas emissions: Reduce from manufacturing facilities by 30 percent per vehicle between 2010 and 2025.

- Water use: Reduce the amount used in the manufacture of each vehicle by 30 percent between 2009 and 2015.

- Energy consumption: 25 percent reduction in average consumption per vehicle globally between 2011 and 2016.

WASTE

Sunny Farms Landfill expansion approved

The Ohio Environmental Protection Agency (EPA) has approved a lateral expansion permit to Sunny Farms Landfill LLC, 12500 West County Road 18 near Fostoria, Ohio.

The permit allows Sunny Farms to build a new disposal area to the south of the existing landfill. The expansion will add 32.3 million cubic yards of airspace for disposal and increase the landfill's life approximately 19.2 years based on the current average daily waste receipt of 4,000 tons. Total land area for the current and future landfill will be 261.3 acres.

During public hearings about the expansion request in May and December 2012, Ohio EPA heard the community's concerns with ongoing odor problems. To address those concerns, Ohio EPA and the company reached an agreement requiring Sunny Farms to do specific work to eliminate odors emanating from the landfill.

Ohio EPA will continue to work closely with the Seneca County Health Department to monitor compliance and odors at the landfill.

■More WASTE COVERAGE, Page B1

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BUSINESS BRIEFS

Atlas Copco celebrates 140th anniversary

■ Headquartered in Sweden, Atlas Copco began with an idea in 1873 that the country should become more self-sufficient in railroad building. As the years passed however, development, technical innovations and competition drove the company to diversify its product portfolio. In the 1950s the first major strategic international acquisition was made with the purchase of Arpic Engineering, a Belgian compressor company.

Atlas Copco first came to the U.S. in 1950. Today Atlas Copco has 109 locations in the United States alone, representing 1.7 million square feet of manufacturing, production, distribution and office space, and employing more than 4,600 people and works with hundreds of carefully selected distributors.

As part of the anniversary celebration, Atlas Copco North America donated \$60,000 to New York City-based "charity: water," a global non-profit dedicated to bringing clean and safe drinking water to people in developing nations.

Bandit Industries welcomes three new dealers

■ Bandit Industries added three new dealer locations in the first quarter of 2013.

Bobcat of Palm Beach/Broward operates in two Florida locations, West Palm Beach and Pompano Beach.

Bobcat of Jacksonville serves customers in Northern Florida.

Hepburn Enterprises is located in Winnipeg, serving customers throughout Manitoba and Central Canada.

Cascade promotes Mark Miller to president

■ Cascade Engineering has promoted Mark Miller to president of the Cascade Engineering (CE) Family of Companies. Miller will focus on CE's manufacturing-based business units including CK Technologies, Automotive Americas and Europe, Cascade Cart Solutions, CapTurIt, Commercial Products and Noble Polymers, and will be responsible for leading the manufacturing, engineering and finance teams. Miller will continue to report directly to company founder, chairman and chief executive officer Fred Keller.

Miller most recently was the president of CK Technologies, group vice president of the Transportation Group and the chief strategy officer for the Family of Companies.

Miller is a 25 year veteran of the transportation industry. His extensive industry experience has included working with virtually all major OEMs in both the commercial truck and automotive sectors. Prior to joining CK Technologies in 2006, he held a number of leadership positions within the Tier I automotive supply sector for more than 15 years.

Fred Keller will remain Chairman and chief executive officer and retain responsibility for new business and technology development and Cascade Renewable Energy. Steve Peterson will continue as chief financial officer and Kenyatta Brame, senior vice president and chief administrative officer will lead the non-manufacturing business units.

Veteran executive joins Earth911 advisory board

■ Earth911, Inc., an Infinity Resources Holdings company, welcomed another industry advisor to its consulting team with the addition of Ed Skernolis, a 40 year veteran of the recycling industry whose legacy includes the Environmental Protection Agency (EPA), Waste Management, Inc., National Recycling Coalition (NRC), and Keep America Beautiful (KAB). As an adviser to Earth911, Inc., Skernolis will open conversations about collaborative solutions to achieving true product stewardship between members of his professional network and Earth911, Inc.

Skernolis spent 14 years with EPA, 18 years as director of government affairs for Waste Management, Inc., 2 years as acting executive director of the NRC, and most recently served as senior vice president, recycling, for KAB before retiring at the end of 2012. At KAB, Skernolis led the creation and rapid growth of the recycling department, fostered significant growth in America Recycles Day and the campus-based competition RecycleMania, and oversaw creation of the K-12 Recycle-Bowl competition, the Annual Recycling Symposium, and KAB's highly successful Public Space Recycling Initiative, which has placed almost 100,000 recycling bins in public areas around the country.

Vortex Valves expands Kansas headquarters

■ Vortex plans to increase its plant size by about 50 percent. The 64,000 sq. ft. expansion will bring the Salina, Kansas headquarters to a total of 185,000 ft.

President and chief executive officer Jeff Thompson said he expects construction to begin in April and be completed by the end of the year.

The expansion will add approximately 48,000 sq. ft. of production space and 16,000 sq. ft. for offices and conference rooms.

Vortex built and occupied its existing headquarters at the end of 2006. Since then the company has grown its workforce by 33 percent. Vortex currently employs 164 people in its Salina facility.

The expansion will allow Vortex to accommodate high growth potentials with several new products in new markets related to dry bulk processing.

Clean Harbors' Metzger as new SCAA president

■ The Spill Control Association of America (SCAA) named Scott Metzger as its new president at SCAA's recent annual meeting held in Alexandria, Virginia.

Metzger is senior vice president of field operations for Clean Harbors and holds an oversight role for the their National Strike Team that manages environmental incidents. When not deployed on an event, his focus is emergency response preparedness, readiness, training and the development of response teams.

Kolberg-Pioneer touted for safety improvement

■ Kolberg-Pioneer, Inc. (KPI-JCI) has been recognized for its commendable efforts in safety by parent corporation Astec Industries, Inc.

KPI-JCI is the recipient of the Most Improved Safety Award for its 2012 safety record. The company decreased its recordable incidents by 56 percent over a 12-month period, according to safety manager Neil Pedersen.

The reduction in incidents is significant for the company, which places a heavy emphasis on safety in the workplace.

Pennsylvania DEP secretary Krancer resigns

■ Pennsylvania Governor Tom Corbett declared that Department of Environmental Protection (DEP) Secretary Mike Krancer will step down to return home to Montgomery County to practice law.

Krancer also oversaw the permit review process and permit decision guarantee, which have brought timeliness and consistency to the permitting process for all agency-regulated activities.

Krancer will rejoin his former law firm, Blank Rome LLP, an international law firm based in Philadelphia.

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BUSINESS BRIEFS

Ecoverse buys compost equipment distributor

■ DoppstadtUS holding company Ecoverse Industries LLC has acquired compost equipment distributor N40 Inc.

For more than 10 years, North Carolina-based N40 has been helping commercial compost facilities establish efficient and effective operations.

Lyndell Pate, sales manager for N40, will continue to provide consultation and expertise for compost operations, specifically with regard to process and equipment recommendations.

Paul Holshouser, service technician for N40, will also continue to help customers keep their equipment running at peak performance.

N40 business operations have all been consolidated to the Avon, Ohio headquarters of Ecoverse and DoppstadtUS. Their North Carolina sales and service office still remains.

The Timken Company acquires Interlube Systems

■ The Timken Company has acquired Interlube Systems Ltd., which makes automated lubrication delivery systems for end market sectors including commercial vehicles, construction, mining, heavy and general industries.

With 2012 sales of approximately \$13 million, Interlube is based in Plymouth, U.K., has an operation in Dayton, Ohio, and a joint venture in Zhuhai, China. The purchase also includes MSP Distributors Ltd., based in Cheltenham, U.K., and acquired by Interlube in 2007.

Nissan Forklift and TCM America forms UniCarriers

■ Nissan Forklift Corporation, North America has joined forces with TCM America under a new name, UniCarriers Americas Corporation. UniCarriers Americas Corporation is a division of UniCarriers Corporation headquartered in Tokyo, Japan. UniCarriers Holdings is the parent company of UniCarriers. The head offices will be located in Marengo, Illinois.

Wastequip adds Gonzalez to board of directors

■ Wastequip has added Lori H. Gonzalez to the board of directors of Wastequip's parent holding company, Patriot Container Corporation.

Gonzalez is currently a vice president at Jarden Corporation. Gonzalez is responsible for long-term business strategy, P&L management, product portfolio management and marketing strategy.

Sims makes European management changes

■ Effective immediately Graham Davy, CEO Europe and Global Sims Recycling Solutions (SRS), is no longer employed by the company.

Amongst other management changes, Hans-Otto Hagemann has been appointed acting managing director SRS Continental Europe and SRS UK.

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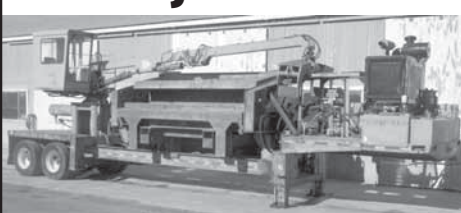
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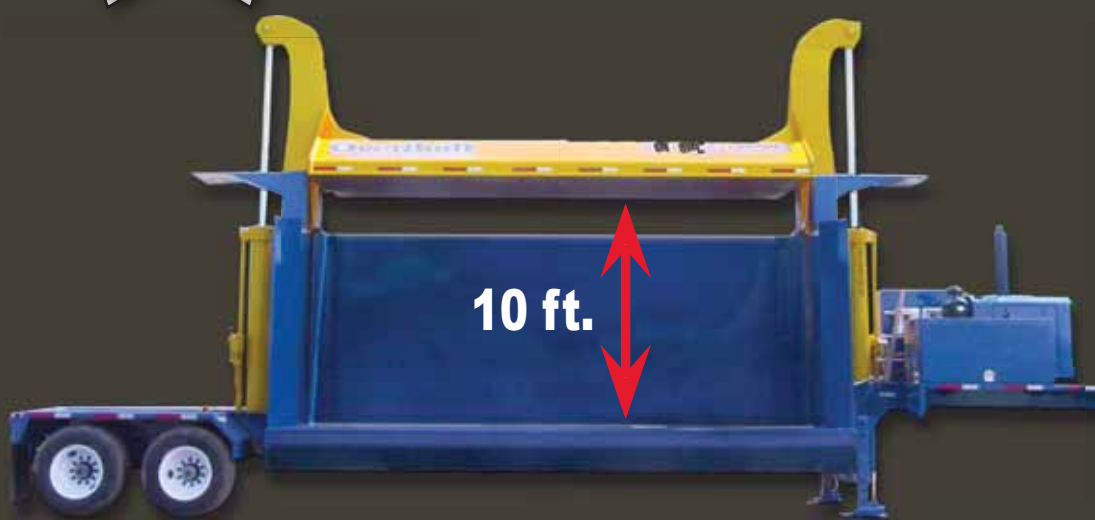
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Phone apps establish foothold in waste industry

by MARK HENRICKS

mhenricks@americanrecycler.com

Apps that run on smartphones are the latest way for city recycling departments, haulers and others to communicate with citizens about schedules, drop off locations, tips for hard-to-recycle items and other matters. George Dreckmann, recycling coordinator for the city of Madison, Wisconsin, said the 'my-waste' app they've been supplying free to customers for the past year puts virtually all the information from the recycling department website into a cell phone that fits in residents' pockets.

Dreckmann was concerned that the city's existing print publications and website weren't getting information to an important segment of users. "We were looking for a way to extend our reach into the very mobile portion of our population, the students and some of the younger professionals who are regularly on the move," Dreckmann said. At \$2,700 for initial setup and \$3,000 per

year in subscription fees, the cost of the app also fit with Dreckmann's reduced marketing budget.

Madison's app is one of a handful of similar products that have hit the market in the last couple of years. So far smartphone apps have made incremental rather than revolutionary changes to the way solid waste managers communicate with consumers. But it's early yet and, according to Barbara McConnell, spokesperson for Toronto-based RecyclingCalendars.com that produces the my-waste app, waste managers everywhere are going to eventually want ways to work with fast-growing mobile technology.

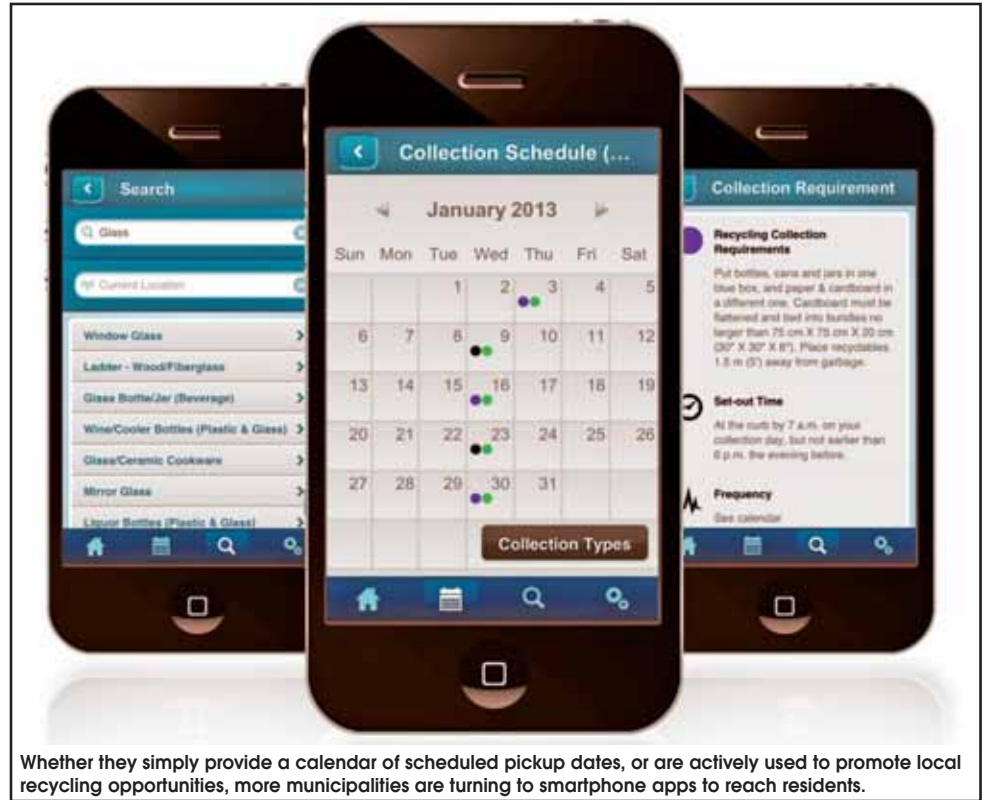
"It really is the way of the future," McConnell said of mobile technology. "And municipalities and haulers have come to understand that if they want to communicate effectively with residents, they have to start looking at what mobile technology is offering to them."

Mobile reality

Recyclers that are adopting mobile apps today are well ahead of the curve. A large minority of people don't have the smartphones needed to run the apps, noted David Eaves, vice president of business development for Recollect, a Vancouver company that sells a recycling app of the same name. Also, because different apps must be programmed for each of several varieties of smartphone software systems, many of the smartphones in customers' hands won't run any given app. And most of those who could use the apps probably never will.

"If you're doing it as a way to communicate with residents, it's not a particularly comprehensive solution," Eaves said. "That's because the number of people who are going to download your app is infinitesimally small."

Dreckmann said about 2,500 people have downloaded Madison's app. He's hoping to get that to 10 percent, about 20,000, of the city's 220,000 population in a couple of years. McConnell said that's a possibility, based on her company's experience of getting up to 15 percent of customers in some cities to download the apps in the first year.



Whether they simply provide a calendar of scheduled pickup dates, or are actively used to promote local recycling opportunities, more municipalities are turning to smartphone apps to reach residents.

App pluses

Apps put the equivalent of a reference book on recycling into customers' hands, where they can access it 24 hours a day from anywhere. In addition to collection schedules and info on recycling specific items, they can tell users about special collections for things such as appliances and electronics, as well as other aspects of a solid waste management program.

One of the concrete benefits early users report is a reduced burden on customer service departments. Users of RecyclingCalendars.com's my-waste app such as Mercer County, New Jersey, have reported fewer calls to help lines since deploying the app.

A special feature of apps is that they can potentially provide insight into customers' behavior and needs. "Apps aren't just a one-way stream of information from a source to a user," notes Corey Lambrecht, president and COO of Earth911 of Scottsdale, Arizona, which provides an app called iRecycle. "They also provide data back to the app owners on how that information is being accessed and used." App owners can

look at what kinds of recycling questions customers are searching for and use that as a way to fine-tune apps and services," he said.

Apps work well when addressing specialized questions, Lambrecht said. "The iRecycle smartphone app is largely beneficial to municipalities to promote recycling opportunities for materials they do not accept," he said. For instance, one county recycling agency promotes iRecycle in its construction recycling directory, he said.

Future apps

A special challenge for recycling app users now is coming up with effective ways to market the apps to customers. "Unless they tell residents the app is there and they can download it to their smartphones, it's a moot point," McConnell said. "Promoting is a very important part of this process." RecyclingCalendars.com provides municipalities with mailers and other materials to promote their my-waste apps.

Recycling app users also have to find ways to integrate their apps with their organization's overall information

See PHONE APPS, Page 6



RecyclingCalendars.com's my-waste app helps reduce call volumes to customer service lines.

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A Letter from the Editor

Readers,

The victims of the Boston Marathon attack are in the thoughts and prayers of American Recycler staff. We wish you all a swift recovery, and hope that the surviving perpetrator is prosecuted to the full extent of the law.

The attack itself, unprovoked and so exceedingly heinous in nature, was incredibly disturbing. But even in the face of such evil, humanity's innate goodness was also on display. The stories of the heroes – the civilians who rushed to help injured strangers, the police on site, the first responders, the runners who ran to the hospital to give blood, and the citizens of Boston who opened their homes and businesses to the displaced – are the stories that give us hope that the gentle majority will always overcome the minority with evil and madness in their hearts.

I am as glad as anyone that the perpetrator was eventually apprehended. However, the methods employed by the government in order to do so give me great misgivings.

Citizens and other persons within our borders are afforded certain inalienable rights. I believe that many of those rights were trampled in the days following the bombing. The lockdown of the Boston area closed businesses, sporting venues, and even confined citizens to their homes – all in the name of public safety.

Fourth Amendment rights were violated as authorities searched private homes, invoking a broad exigent circumstances exception to the requirement that they obtain a warrant issued upon probable cause. And while it seems as if most citizen complied and consented to the searches, what about those who did not? Would they have been searched regardless, or would the SWAT teams and other heavily armed and armored forces have searched their residences regardless?

Additionally, at the writing of this column, there is talk of questioning the perpetrator without first Mirandizing him. While the part of me that wants swift and sure justice, and perhaps even a bit of vengeance, says that this is OK in this one instance, the rational part of me knows that if we allow this, we weaken our own rights as citizens going forward.

Sometimes checking our government and seeing our rights remain intact carries a heavy cost. I hope everyone continues to watch governmental conduct in the coming weeks and months with a skeptical eye.

God bless America, land of the free, and the home of the brave.



Dave Fournier
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GAF first to have zero-waste claims validated by UL Environment standard

UL Environment, a business unit of Underwriters Laboratories, claimed that roofing manufacturer GAF is the first company to achieve its new Landfill Waste Diversion validation, per UL ECVP 2799.

Launched in June of 2012, UL Environment's Zero Waste to Landfill, Virtually Zero Waste to Landfill and Landfill Waste Diversion claim validations recognize companies that handle waste in innovative and environmentally responsible ways.

"We congratulate GAF on being the first to validate their waste diversion efforts with UL Environment. Their commitment to third-party substantiation is exemplary and shows true industry leadership," said Sara Greenstein, president of UL Environment.

UL Environment's accepted landfill waste diversion strategies include a variety of methods such as reuse, recycling and composting. Companies that

achieve a landfill diversion rate of 100 percent qualify for the Zero Waste to Landfill validation. Companies that achieve a diversion rate of 98 percent or greater qualify for the Virtually Zero Waste to Landfill validation. Those that achieve a diversion rate of 80 percent or greater qualify for a Landfill Waste Diversion validation.

"GAF has been committed to reducing manufacturing waste to zero for several years now, and we were actually internally certifying zero waste plants. However, third-party validation of environmental claims is increasingly important, and I can appreciate that. We needed a standard protocol we could certify to. We have a long-standing relationship with UL, and when I presented this challenge to them, they took it on. Through the entire process, from the desktop audit to the site visits, I feel it has been a collaborative and constructive process. There's nothing like the journey to Zero

Waste. I would be happy to discuss the process with other companies in case I can help," said Martin Grohman, director of sustainability at GAF.

GAF's Everguard TPO Manufacturing facility, located in Mt. Vernon, Indiana, has achieved a landfill diversion rate of 90 percent.

To earn a Zero Waste to Landfill claim validation mark, a Virtually Zero Waste to Landfill claim validation mark, or a Landfill Waste Diversion claim validation mark, companies must undergo an extensive, two-part, UL-led audit, which includes document evaluation and on-site visits. Each claim validation mark clearly indicates the facility's specific rate of landfill diversion. Facilities whose landfill waste diversion claims have been validated by UL Environment are audited annually and featured in UL Environment's Sustainable Product Database.

WM settles with EPA over Hawaii landfill \$1.1 million penalty assessed for Clean Air Act violations

The U.S. Environmental Protection Agency (EPA) has settled with Waste Management of Hawaii, Inc. and the city and county of Honolulu over violations of air pollution laws at the Waimanalo Gulch Landfill in Kapolei, Oahu.

Waste Management, operator of the landfill, and the city, owner of the landfill, are being required to implement enhanced gas monitoring to reduce the threat of underground fires at the landfill, follow fire response

procedures in the event of a fire, and pay a civil penalty of \$1.1 million. Waste Management estimates it has already spent about \$1.5 million to design and construct a gas collection/control system required by federal law.

The settlement resolves allegations that Waste Management and the city failed to design, construct and operate a gas collection/control system, submit notifications regarding failures to complete construction milestones, prepare a startup, shutdown and malfunction plan, and to operate controls within the gas temperature limit. In addition, gas generated by decomposing refuse, such as air toxics, organic compounds, and methane – a potent greenhouse gas – was emitted from the landfill for

approximately three years from 2002 to 2005.

Federal law requires large landfills to install and operate systems to collect gases generated by decomposing refuse. Effective gas controls at a landfill reduces the release of these gases, preventing them from escaping into the atmosphere. The federal default limit for gas temperatures in landfills is 131° F, in contrast to the Waimanalo Gulch Landfill system which has recorded temperatures as high as 188° F. Poorly controlled landfill gas, especially if it is excessively hot, may result in an underground fire.

Although there is no underground combustion at the facility currently, the settlement requires the company to comply with new safe interim gas temperature limits that are higher than the default limit, perform additional special gas monitoring, and insure that all monitoring data meets the requirements of a specified data quality plan. After the interim limits expire in 2016, Waste Management may use the monitoring data to support a request for permanent temperature limits that are higher than the default limit.

The Waimanalo Gulch Landfill was also the subject of EPA enforcement orders under the Clean Water Act, after heavy rains in January 2011 flooded a section of the landfill, causing waste to be released that resulted in beach contamination and closures. EPA's compliance orders to Waste Management required an immediate cleanup, measures to stabilize the structure after the flooding, and stormwater control projects at the landfill.

AR EQUIPMENT SPOTLIGHT

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Cigarette butt litter a social and environmental problem

TUDOR CATALIN GHEORGHE | DREAMSTIME

Littered cigarette butts are more than just an eye sore. According to environmental cleanup reports, cigarette butts are the number one littered item on U.S. roadways and the number one item found on beaches and waterways worldwide. A new survey conducted by Legacy shows that while more than 88 percent of Americans surveyed think that cigarette butts are an environmental concern, more than 44 percent of those polled who had ever smoked admit to having dropped a cigarette on the ground, and nearly 32 percent have dropped a cigarette out of a car window.

Toxic tobacco trash includes a plastic filter which biodegrades only under extreme conditions, putting wildlife in danger and wreaking costly havoc on U.S. waterways, parks, beaches and roadways. Additionally, cigarette butts contain carcinogens that can leach into soil, and chemicals that are poisonous to wildlife which threaten to contaminate water sources.

Legacy has partnered with the Leave No Trace Center for Outdoor Ethics to raise awareness and mobilize action surrounding this toxic problem with a new set of television and radio public service announcements (PSAs)

available in English and Spanish, urging the public to 'Rethink Butts' and take a new perspective on this environmental issue.

Americans surveyed reported seeing this form of litter on sidewalks (80.1 percent), in parks (32.1 percent), on playgrounds (16.6 percent) and on beaches (15.7 percent). While more than 93 percent of those surveyed agree that dropping a cigarette butt on the ground is a form of littering, it is alarming that so many smokers still litter them.

"Social norms surrounding litter have shifted dramatically over the last several decades," said Dr. Cheryl Heaton, DrPH, president and CEO of Legacy, a public health non-profit based in Washington, D.C. "But despite the fact that so many Americans are hyper-concerned about the environment and are eager to recycle household items and pick up litter, there remains a total disconnect when it comes to flicking cigarette butts onto our streets and into our waterways. Through our new partnership with Leave No Trace we hope to not only begin to change the behavior of littering cigarette butts, but also highlight the fact that billions of cigarettes



More than 44 percent of polled smokers freely admitted to having discarded their butts on the ground at least once, despite knowing that doing so was a type of littering.

butts annually amount to an enormous environmental and public health threat that our communities are left to pay for."

In an increasingly health and environmentally conscious world, cigarette

butts remain one of the only socially acceptable forms of littering left. A new set of bilingual PSAs is available online for download and distribution at RethinkButts.org.

NSWMA files amicus brief with SC Supreme Court

The South Carolina Chapter of the National Solid Wastes Management Association (NSWMA) recently submitted an Amici Curiae brief to the South Carolina Supreme Court in response to five certified questions submitted by the federal district court in South Carolina. The certified questions – involving negligence, trespass and nuisance – could dramatically impact hundreds of South Carolina businesses, including the owners and operators of landfills, transfer stations, recycling centers and other solid waste management facilities.

NSWMA partnered with the American Forest & Paper Association of North America (AF&PA), the Institute of Scrap Recycling Industries (ISRI) and the Solid Waste Association of North America's South Carolina Chapter (SWANA) in filing the brief. The amicus brief was filed in support of defendant Lee County Landfill. The brief is available for download.

NSWMA's amicus brief in connection with a related lawsuit in federal court

concerning nuisance and trespass issues associated with a South Carolina landfill. According to NSWMA general counsel David Biderman, oral argument before the South Carolina Supreme Court took place in March. A decision on the issues addressed in NSWMA's amicus brief is not expected for several months.

NSWMA argued the South Carolina Supreme Court should answer the federal district court's certified questions as follows:

1. Under South Carolina law, when a plaintiff seeks recovery for a temporary trespass or nuisance, damages are limited to the lost rental value of the property.

2. South Carolina law does not recognize a cause of action for trespass solely from invisible odors rather than a physical invasion such as dust or water.

3. The maximum amount of compensatory damages a plaintiff can receive in any trespass or nuisance action (temporary or permanent) where no claim for restoration or cleanup costs has been alleged is the full market value of the plaintiff's property.

4. When a plaintiff contends that offensive odors have migrated from a neighbor's property onto the plaintiff's property, the plaintiff may not maintain an independent cause of action for negligence but is limited to remedies under trespass and nuisance.

5. If an independent cause of action for negligence exists under South Carolina law when a plaintiff contends that offensive odors have migrated from a neighbor's property onto the plaintiff's property, the standard of care for a landfill operator and breach thereof must be established through expert testimony.

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EQUIPMENT SPOTLIGHT

Truck Scales

by **MARY M. COX**

maryc@americanrecycler.com

Waste industry companies are interested in refuse truck scales for several reasons: safety, because an overloaded vehicle is a hazard and a liability concern; maintenance, because overloaded vehicles break down more often, resulting in increased costs; regulation, relative to overweight fines and penalties; route management; and the tracking of recycling, for the purpose of meeting standards or to show progress.

Air Weigh on-board scales function well for a wide variety of trucking segments and applications. The products are sold through OEM, dealer and direct channels domestically and are also distributed through networks in the UK, Germany, Spain and Australia. Michael Ferguson is national refuse account manager at Air Weigh.



Air-Weigh

"We have a strong engineering team and our core strengths include weighing, and integrated weighing systems; on-board electronics, embedded software; capacitive, inductive, magnetic sensing; multiplexing, communication protocols and heavy-duty vehicle product packaging. Our Air-Weigh LoadMaxx Scales are designed for use on all over-the-road vehicles, including garbage trucks (roll-offs, side loaders, rear loaders and front loaders), and any recycling vehicles. The system can be used on trucks with air or mechanical suspensions, and can provide drivers with a tool to manage legal loading; the ability to operate safely with the proper legal load while avoiding fines or penalties from being overweight; reduction in equipment overloading and abuse; and a

simple to install, reliable service," said Ferguson.

Air-Weigh BinMaxx Scales are designed specifically for front load vehicles and provide drivers with accurate, real time weights for front load containers and can be used to audit routes and track recycling. The system is popular for weighing each individual container, route auditing, and tracking recycling and organics. The system can easily find customers that overload bins, improve routes with a weight history, and use weight history to improve service.

Ferguson said, "Increasingly, there is a trend to integrate scales into other technology, such as on-board computers. Users prefer a turnkey technology system on the truck that includes weight information. Air-Weigh products already provide that capability, including the RS 232 and J 1939 interface connections. Our products are not affected by environmental factors such as altitude, temperature or humidity. As waste is loaded, our product performs a dynamic weigh in motion, which is reliable and accurate."

Since 1974, Avery Weigh-Tronix (AWT) has offered a wide range of standard truck scale products to meet the unique application requirements of each customer in the waste and recycling industries. Jim Little, vice president, OEM/national account sales, said the BridgeMont and SteelBridge XT truck scales are the most popular AWT products, and both are available in steel deck and concrete deck versions with options such as guide rails or manhole. Several hundred models are manufactured annually and each includes



Averly Weigh-Tronix

AWT's patented Weigh Bar. The patented Easi-Post suspension components of the scales are constructed of hardened

stainless steel and decouple the weigh-bridge from the foundation as vehicles stop on the scale. AWT truck scales are also used in agriculture, mining, chemical, manufacturing, food processing, shipping ports and timber industry applications.



Mettler Toledo

According to Little, the waste and recycling industries have grown more conscientious about adhering to the defined limits of the U.S. Department of Transportation's Compliance, Safety, Accountability program. The program determines road requirements for all trucking vessels and requires trucks to be weighed properly. "Fines have significantly increased in the last few years and that trend impacts a company's profits. If a truck is overweight, it can cause damage to the roads, the vehicle itself and the people that are using those roads," Little said.

He also noted an increased focus on traceability in the waste and recycling industry. "It is important for companies to establish the weight they are pushing through their systems and the payback they are getting for that weight. Relative to that, the cost of ownership is also a strong focus for waste and recycling companies. Fuel costs and vehicle maintenance costs are also primary concerns, so an accurate, reliable truck scale is critical to ensure that properly loaded vehicles achieve maximum efficiency in vehicle route management. The market has caused many recyclers to make staff reductions, and this has impacted resources dedicated to equipment and processes," stated Little.

He concluded, "We strive to help companies operate smarter and utilize their data as much as possible. For example, if a company has employed a truck scale, an indicator and scanner, they are not simply weighing material but also tracking a

variety of information, from who is coming, what they have and where they are going next. The technology around our truck scales set us apart from our competitors."

See SPOTLIGHT, Page 7

Manufacturer List

A-1 Scale Company, Inc.
Scott Klesper
 800-890-3555
www.a1scalewis.com

Air-Weigh
Michael Ferguson
 888-459-3444
www.air-weighscales.com

Avery Weigh-Tronix
James T. Little
 877-888-1646
www.averyweigh-tronix.com

B-TEK Scales, LLC
Ashley Moore
 800-266-8900
www.b-tek.com

Cardinal Scale Mfg. Co.
Randy Doyle
 800-441-4237
www.cardinalscale.com

Emery Winslow Scale Co.
David Young
 800-891-3952
www.emerywinslow.com

Holtgrevan Scale and Electronics
Len Holtgrevan
 800-637-3326
www.loadmasterscale.com

Mettler Toledo
Craig Nickoloff
 614-438-4564
www.mt.com/vehicle

Vulcan On Board Systems
Eric Elefson
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www.vulcanscales.com

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A Closer Look

by Donna Currie

Hauling by Steve

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Before he launched his waste hauling business, Steve Mulfur worked in management for a greyhound race track for 20 years. When the racing industry declined and the track closed, Mulfur placed an ad in a local newspaper to do odd jobs while he figured out what to do next.

He did some handyman work, but soon found that he made more money when he rented a truck and started hauling junk from homes and businesses. It wasn't long before he bought a truck and founded Hauling by Steve. That was about ten years ago.

Since Mulfur's business isn't based on routes or regular pickups, he has to rely on advertising to bring in new business. "I'm trying to figure out what type of advertising does best," he said. What worked best ten years ago isn't as effective today, but he keeps looking for new ways to grow the business.

Mulfur works on his own most of the time, but when he gets busy enough he hires temps to help him out. The nature of the business makes it hard to schedule well enough to hire a regular employee and keep that person busy. Mulfur said he might have no work first thing in the morning and have multiple jobs at the end of the day – or none.

While Mulfur's business isn't predictable day-to-day, the downturn in the economy a few years ago didn't really affect his business the way it affected many others. "It's hardly a luxury to get rid of junk," he said. On the other hand, his business is seasonal, with the most work in spring through fall.

Most of the business is waste hauling, but Mulfur also collects some recycling that he stockpiles until he has enough to take to a local recycler. The transfer station where he brings the trash also pulls out recyclable materials as they arrive.

Mulfur also picks up some useable items that he can resell, like desks or other furniture, but every job is different. One of the strangest things he was called in to haul out was a 1,500 lb. dead horse from a farm, but he said that dead deer often need to be removed from urban areas where they try to jump fences but don't quite make it.

One of his biggest challenges is dealing with fluctuating gas prices that affect the cost of doing business. While he remains near his base in Colorado Springs, he might travel as far as 125 miles for some jobs – so fuel costs can take a bite out of profits. At the same time, disposal fees are always going up.

Meanwhile, "customers are very price sensitive," Mulfur said. And it's always a balance between what the customers want to pay and what he needs to charge to make a reasonable profit.

Some customers also assume their junk is still usable, but Mulfur said that most of the time, it really is destined for the landfill.

After ten years, Mulfur said that he most enjoys "being the captain of my own ship. I wouldn't want to work for someone else and do this." Since he calls all the shots, he can do things other companies might not do – like going inside homes to help haul trash out. If he has time, he also might use his truck to help people move.

While the majority of his hauling is from homes, some of that is done for realtors, or the junk comes from rental properties and from foreclosures that need to be cleaned out. He also does work for contractors as well as some offices and other businesses.

Mulfur said that when he started the business he didn't have a lot of competition, but in the past few years, two national firms moved into the area, which makes it harder when he quotes on jobs. "I get four calls and get one job," he said.

But he doesn't mind doing all the quotes, since one of the things he enjoys most about the job is talking to all of the people he encounters. "You deal with all sorts of personalities and income levels," he said.

He also likes the idea that he created a job for himself and grew it and nurtured it into a business that allows him to earn a living. All that, from a few ads looking for odd jobs.

EPA recognizes landfills for renewable energy generation

The U.S. Environmental Protection Agency (EPA) recognized two regional landfills for generating renewable energy from a local source while protecting the climate, providing energy savings and strengthening the economy.

•Coca-Cola and Hickory Ridge Landfill Combined Heat and Power (CHP) Project, Conley, Georgia.

Mas Energy, the Coca-Cola Company and Republic Services developed a project that provides Coca-Cola's Atlanta Syrup Plant with a continuous supply of green electricity, steam and chilled water. This project, the first landfill gas energy project for Coca-Cola, supplies nearly all of the plant's energy needs and results in real energy savings for the company.

•Watauga County Landfill Small Electricity Project, Boone, North Carolina.

Watauga County developed the model 186 kilowatt project at a small, unlined landfill closed for 18 years by creatively employing modified automotive engines and the assistance of the Appalachian State University (ASU) Energy Center. The project provides economic benefits for the county and

one-of-a-kind research opportunities for ASU students and faculty.

In total, eight landfill methane utilization projects and partners from across the U.S. were recognized at the 16th Annual Landfill Methane Outreach Program Conference held in Baltimore, Maryland.

This year's eight winning projects and partners will avoid the emissions equal to the annual greenhouse gas emissions from more than 52,000 passenger vehicles. The 7 electricity-generating projects total approximately 50 megawatts of generation capacity, and the direct-use project uses 50 standard cubic feet per minute of landfill gas.

The remaining six awardees included: Gundersen Health System and La Crosse County Landfill Combined Heat and Power Project (Wisconsin), Landfill Energy Systems (Michigan), Lycoming County Landfill Dual Cogeneration and Electricity Project (Pennsylvania), Millersville Landfill Electricity Project (Maryland), Olinda Alpha Landfill Combined Cycle Project (California), and St. Landry Parish Landfill Compressed Natural Gas Project (Louisiana).

Phone apps

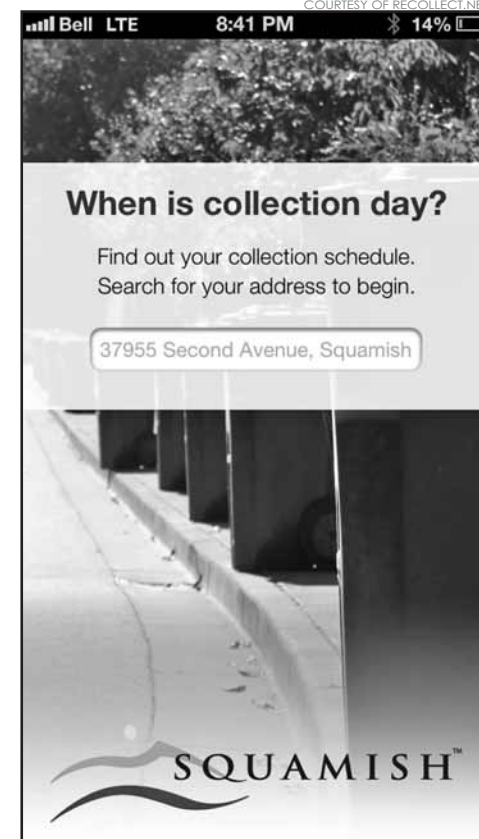
Continued from Page 1

technology plan. Many cities are struggling with the question of whether to have a single app that covers all city functions or to have separate apps for each department, Eaves said. Apps like 'my-waste' and Recollect are customizable with city and department logos, but providing information about all of a city's services and programs is more complicated. McConnell said RecyclingCalendars.com is working on a whole city app capable of serving up information from the full range of municipal services but has yet to offer it for sale.

The future will certainly bring more apps and more features. The Environmental Protection Agency lists several recycling-oriented apps among nearly 200 on its "My Green Apps" website. McConnell said later this year they hope to roll out a capability that will send an alert to users' phones in real-time when the collection truck is approaching their neighborhood.

Meanwhile, recycling officials like Dreckmann will continue making their department websites more mobile-friendly and otherwise trying to accommodate the boom in mobile technology. This approach, integrating smartphone apps into an increasingly electronic communication plan, is probably the way of the future, Eaves said.

"It's hard to imagine that the app alone will become dominant," he said. "What will become important is digital in general. For instance, the number of cities that are doing paper collection calendars in five years is going to drop precipitously."



Lambrecht concurs. "Apps are just one part of the solutions we are developing to help municipalities to meet their landfill diversion goals and communicate with residents about how they can make low impact lifestyles a household norm. Mobile is a fast moving realm for the type of recycling intelligence that Earth911 deploys and we have just scratched the surface of mobile technology to improve on the customer experience."

Dreckmann anticipates seeing more capabilities as more players enter the recycling app game. "We have to see just how exactly these app-based systems are going to work out," he said. "But the future is good for information-based systems like this."



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Wisconsin legislators want to implement stiff penalties for speeding around sanitation workers

State Representative John Jagler (R-Watertown) and State Senator Paul Farrow (R-Pewaukee) sent a simple message for Wisconsin drivers: slow down around garbage trucks. To encourage this, they have introduced legislation in Madison. Jagler's Assembly Bill 159 was introduced on April 17, and Farrow's companion bill was scheduled to be introduced shortly thereafter. The Wisconsin chapter of the National Solid Wastes Management Association (NSWMA), the association representing the private-sector solid waste and recycling industry, supports Assemblyman Jagler's and Senator Farrow's bills.

This legislation would double the minimum and maximum forfeitures for

certain speeding violations and the minimum and maximum forfeitures or fines for reckless driving violations committed where sanitation workers are at risk from traffic and the driver knows or should know that sanitation workers are present.

These bills were spurred by a January 5, 2012 accident in Stoughton, Wisconsin, involving Mark Friend, a 36 year old sanitation worker from Ixonia, and the father of two young boys. For an hour that morning, Friend was pinned between his garbage truck and the car of a 21 year old driver who, according to police reports, never slowed down. Friend was in a coma for two weeks and doctors had to amputate

his left leg. Miraculously, he left the hospital after two months and is now recovering at home. He is still dealing with internal and external injuries from the accident, however.

Drivers who are distracted – or just going too fast – are a major hazard for sanitation workers. Just six months before, during his 2012 campaign, Friend told then-candidate Jagler that he was worried that it was just a matter of time before he or one of his co-workers got hurt.

"Driving safely should be the top priority for anyone getting behind the wheel of a vehicle," said NSWMA president and CEO Sharon H. Kneiss. "This kind of legislation may make

someone more careful next time they pass by a garbage truck. We want all our sanitation workers to come home every day, safe and sound.

NSWMA has championed safety for years. Its Slow Down to Get Around national campaign reminds motorists to drive more carefully near solid waste collection vehicles. Motorists are often distracted while driving and frequently crash into collection employees or vehicles – sometimes with fatal consequences.

For additional information, view this article on www.AmericanRecycler.com.

Spotlight

■Continued from Page 4

Mettler Toledo (MT) designs, manufactures and services truck and rail scales for many industries including waste and recycling, mining and aggregates, bulk food and chemical, and more. "We're known for innovative scale designs and for advancing load cell technology. This includes the highly successful Powercell® line of vehicle scale load cells, with over 1 million installed worldwide," Craig Nickoloff, vehicle scale product specialist, said. Each year, MT supplies more than 5,000 vehicle scales and systems across the globe.

Nickoloff also said the company is one of very few truck scale providers to design and manufacture its own load cells with features such as digital accuracy compensation, laboratory-validated lightning strike protection, self-monitoring networks, simplified scale service and more.

Peripheral products are also available, including unattended terminals that allow drivers to process automated weighing transactions. A range of scale house software (DataBridge®) is available to interact with the scale and streamline data management, transactions and customer records. This can help waste and recycling organizations more easily comply with measurement and traceability regulations.

"The rugged physical protections found in MT load cells, cables and network connections have reduced component failures that are commonly seen on conventional truck scales. When paired with a preventative maintenance program, customers using scales equipped with our Powercell PDX® load cells have seen a dramatic decrease in unplanned downtime," Nickoloff commented.

MT also provides products and services to improve and extend the life of an existing scale. That can include sandblasting and repainting the weighbridge and upgrading the load cell system and scale terminal. By incorporating a modern load cell system, an existing scale can perform even better than it did



Walz Scale

when it was new – at a fraction of the cost of a new scale.

"Walz Scale understands that folks in the waste and recycling industry work hard every day and they count on rugged, reliable products to keep their operation up and running. For nearly half a century, we've been supplying weighing truck scales and on-board scale systems that get the job done, and that meet the demands of some of the industry's toughest conditions," stated Matt Walz, vice president.

Walz said his firm has worked with clients for decades in improving designs and developing new solutions for weighing technology.

"All of our truck scales are built on the framework of a tension link suspension, proven over a century to be superior to other compression suspension systems available on the market today. Our suspension system eliminates the need for check rods and precast anchor systems, which in turn simplifies the installation process, eliminates maintenance requirements found in other scale systems and improves weighing performance.

"To help keep uptime high and operating costs low for our clients, we've built dozens of efficient maintenance features into our truck scales. Our service component designs provide customers and technicians with easy access to key service points. Perhaps our most important scale design feature is our customer's ability to source all replacement components from any scale company in North America. While most

other truck scale manufacturers require their customers to purchase proprietary load cells at extremely high costs, our

design allows customer to source replacement load cells from any scale company," said Walz.

He added, "Our line of on-board scale systems are extensive and ideal for managing the growing pressure to increase efficiencies and profits, and the need to meet industry regulations. Our systems help customers to comply with road and highway axle weight restrictions, and eliminate dead freight costs and overload fines on rail cars. Many of our customers also require greater automation in their processes so we developed an extensive line of automation solutions that interface to their weighing processes. For nearly half a century we have built our reputation by doing what is best for our customers."

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With infeed conveyor. 4.9' system in very good condition. **\$169,000**



2008 KOMATSU PC300LC-8 WITH NEW SHEAR

Equipped with a NEW LaBounty MSD 2500R shear. Komatsu. 4,600 hours, has new paint and is double plumbed for shear. LaBounty is NEW with factory warranty. Priced plus freight. **\$350,000**