



# American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

## FOCUS: C&D RECYCLING

### Asphalt recycling pulls material from roads



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# Recyclers confront plastic bag bans

by MARK HENRICKS

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Plastic bag manufacturers are battling a growing movement to ban or tax single-use bags, like those employed to carry groceries, by expanding recycling efforts for plastic films. But the issue remains controversial as cities try to meet goals for reducing litter and divert materials from landfill.

Austin, Texas, is one of the latest cities to consider a ban on plastic bags. City leaders have proposed to require retailers beginning in 2013 to collect a surcharge of \$.10 per bag or \$1 per transaction from customers, and to completely ban single-use bags, whether paper or plastic, the following year.

"Single use bags litter the city and waterways, are unsightly in natural areas, and cause significant expense to local governments in litter control and disposal," said Bob Gedert, director of Austin Resource Recovery, formerly the City of Austin Solid Waste Services. "In addition, our Zero Waste Plan requires moving away from single use to reuse and recyclability standards."

Several cities, starting with San Francisco in 2007, have moved to tax or ban single use plastic bags. The bans have reduced plastic bag litter in at least some cases, says Anne Bedarf, senior manager with GreenBlue's Sustainable Packaging Coalition, a non-profit industry working group based in Charlottesville, Virginia. However, critics say bans are not the best solution, and that recycling is better.

Paper bags are equally costly in terms of resource consumption during manufacturing, noted H. Sterling Burnett, senior fellow with the National Center for Policy Analysis in Dallas. And reusable bags, which the bans are trying to promote, don't last forever and are not always recyclable. Also, shoppers haven't embraced reusable bags. Burnett said that the United States imports about 500 mil-



A Hilex Poly employee at the company's North Vernon, Indiana recycling plant sorts plastic bags for recycling.

lion reusable bags every year. "That means people are not taking their bags back in and they have to get a new one every time," he said.

Single use plastic bags, Burnett said, are often re-used as storage, garbage and other containers. The bags also take up

little space in landfills. "It turns out they don't make up by weight or number very much of the litter on the road," Burnett adds. "It's less than 0.6 percent."

One alternative to banning plastic bags is to recycle them. Grocery and other containers. The bags also take up

See BAG BANS, Page 4

## Miami-Dade collects 200,000 tons of recyclables



PHOTO COURTESY OF SHENENDEHOWA HIGH SCHOOL

Miami-Dade County's single-stream curbside residential recycling program hit their second best month ever in December with a total of 5,734 tons of recyclables collected. Overall, the county has now collected a grand total of 200,785 tons of paper, plastic, metal cans, glass and other recyclable materials.

"Thanks to the simplicity of single-stream recycling and the outstanding participation of our residents, we have reached this important milestone in three-and-a-half years, a year faster than we reached it under the old dual-stream recycling program," said Kathleen Woods-Richardson, director of the Miami-Dade County Public Works and Waste Management Department.

Miami-Dade County first started curbside residential recycling service in 1990 with a dual-stream program, where residents separated materials and placed them into two bins. The county introduced single-stream recycling in late June 2008. The program has helped Miami-Dade set numerous recycling collection records including nearly doubling its annual recycling collection totals and collecting more than 5,780 tons of recyclable materials in December 2009, its best month ever.

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# Connecticut University wins EPA recycling challenge

Central Connecticut State University was among five schools nationwide to win the Environmental Protection Agency (EPA) 2011 Game Day Challenge, a competition among colleges and universities nationwide with the goal of lowering waste generated at college football games and increasing participation in waste reduction programs.

As part of the challenge, 7 schools in New England and more than 75 schools across the nation designed a waste reduction plan for one 2011 regular season home football game, measured their results and submitted them to EPA.

Central Connecticut State University won in the Waste Minimization category, meaning they had the least amount of waste generated per attendee. Each attendee generated an average of .059 lbs. of waste at the game. Yale University came in second with an average of 2.19 lbs. of waste per attendee.

Other schools that participated in New England were Harvard University; the Campus Sustainability Initiative at the University of Massachusetts in Amherst; Brown University; the University of Rhode Island, and Bryant University.

**Other categories and the winners were:**

Diversion Rate Champion (Highest combined recycling and composting rate) – University of California, Davis.

Greenhouse Gas Reduction Champion (Greatest greenhouse gas reductions from diverting waste) – University of Virginia.

Recycling Champion (Highest recycling rate) – University of Virginia.

Organics Reduction Champion (Highest organics reduction rate) – Marist College.

Participating colleges and universities, including 2.7 million fans, diverted more than 500,000 lbs. of waste from football games this fall, preventing nearly 810 metric tons of carbon dioxide emissions – equivalent to the annual emissions from 159 passenger vehicles.

These colleges and universities and their fans took one step further to green the gridiron and help build awareness around the importance of recycling, reducing and reusing. In 2010, Americans kept 85 million tons of waste out of landfills by recycling and composting, boosting the national recycling rate to 34 percent. Out of the 165 million tons of waste that went into landfills, food scraps made up 20 percent. Food is the single largest waste stream that ends up in landfills.

To address food waste, EPA's Food Recovery Challenge under the Sustainable Materials Management program encourages schools to donate surplus and wholesome fresh food from sporting venues and cafeterias, instead of throwing it away.

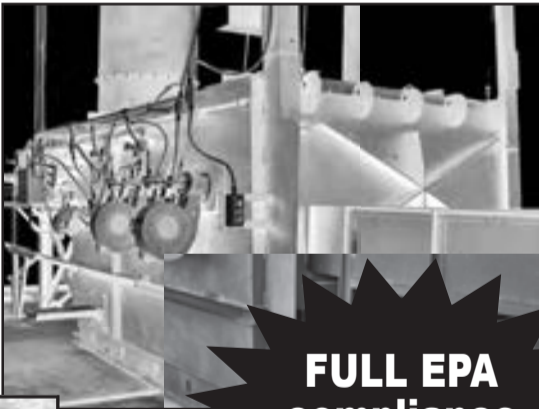
The competition was sponsored by EPA's WasteWise program, a voluntary program through which organizations eliminate costly municipal solid waste and select industrial wastes, benefiting their bottom line and the environment.

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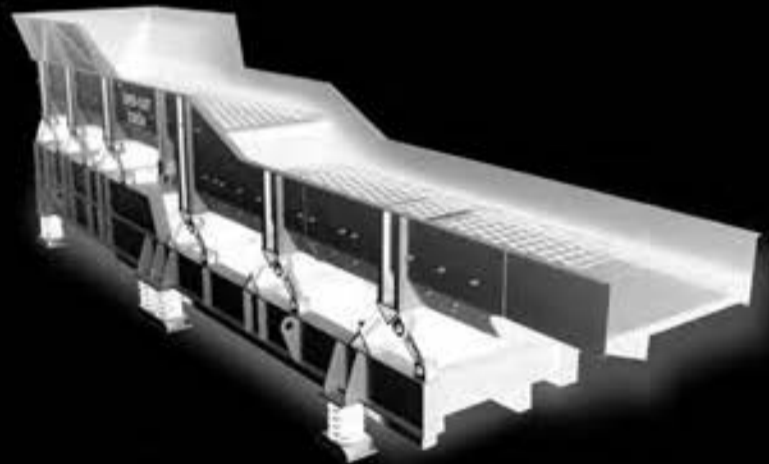
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# RockTenn invests in automated sorting

RockTenn has opened a new single-stream recycling facility in Memphis, Tennessee, expanding the company's recycling capabilities and increasing its presence and service capabilities.

The new 150,000 sq. ft. facility will complement RockTenn's established single-stream recycling plants in Chattanooga and Knoxville. The automated, single-stream system allows designated recyclable materials to be fully commingled during collection instead of separated into different bins – a process that

offers significant benefits to homes and businesses.

The opening of the Memphis plant, as the first single-stream facility in the city's metropolitan area, represents a key investment in RockTenn's Recycling and Waste Solutions growth plan.

This is RockTenn's 9th single-stream system within its 39 recycling facilities. The company will continue to expand its recycling powers nationwide in the upcoming year.

RockTenn's 39 recycling and waste solutions facilities partner with vendors across the United States to provide innovative ways to recycle items that are not mainstream. The company's Recycling and Waste Solutions employees are dedicated to managing waste streams, recovering recyclables and finding new life for old items, in addition to educating companies and communities about the importance of recycling and reducing the amount of materials that enter landfills.

## Bag bans

Continued from Page 1

other plastic film such as dry cleaning bags, department store bags and shrink wrap can be cleaned, shredded, pelletized and manufactured into composite lumber, its most popular use, said Mark Daniels, vice president for sustainability and environmental policy at Hilex Poly Co. LLC, a major film manufacturer in South Carolina, and chairman of the American Progressive Bag Affiliates, an industry group devoted to encouraging recycling.

Daniels indicated that recycling rates for plastic bags, film and wraps increased

24 percent from 2005 to 2009. "It's one of the fastest growing and more valuable recycling products out there," he said. "And we think there is room to increase recycling rates."

However, the bags tend to become tangled in machinery at materials recovery facilities, causing costly downtime and repairs. Furthermore, efforts to encourage consumers to recycle have limited success. Starting in 2009, Austin tried to reduce the number of bags being sent to its landfill by 50 percent, but after 3 years the use of plastic bags had only declined 20 percent, the city said.

If recycling of post-consumer plastic film has been challenging to date, opponents of bans argue that taxing or banning bags will make it much more difficult. That's because grocery stores and other locations that, today, have approximately 30,000 bins for collecting recycled bags, will presumably stop collecting the bags since they are no longer allowed to hand them out.

Recycling advocates suggest, instead of banning bags, making it easier for consumer to recycle bags and for recyclers to handle them. One approach is to require consumers to place plastic bags and other film inside another plastic bag before putting them into a single stream recycling container.

This is more convenient for consumers than having to make a trip to a collection bin. It's also easier for MRFs to handle the otherwise troublesome plastic film at recycling centers. This is the approach used successfully in Arlington, Virginia, noted Bedarf. However, she said only approximately 10 percent of United States households have access to similar plastic bag-friendly single stream recycling systems.


Daniels said the technology to recycle bags in single stream facilities is available and becoming more widely used. He and his association members are determined to attempt to block bag bans wherever they crop up. He noted that no state, so far, has moved to ban or tax bags. Gedert, however, says the bans envisioned in Austin and enacted in San Francisco and other cities are just the beginning. "I foresee a national ban on single use plastic bags, as it creates a financial burden on local and state governments," he said. "Why should the government bear the cost of a polluting product?"

Bedarf said the Sustainable Packaging Coalition doesn't anticipate a national ban or even statewide bans. As an alternative, her group is promoting a new labeling plan for plastic bags and films that advises consumers bags can be dropped off for recycling at the store where they were obtained or other retail locations. "Certainly, the goal should be to recycle as many as possible," she said, "since it looks like they're going to continue to be used."

Indeed, Burnett said that in cities such as Brownsville, Texas, where a surcharge was instituted, consumers tended to pay the surcharges in order to keep using single-use bags rather than substituting re-usable bags. The reason, he said, is that consumers prefer single use plastic bags because they work better than the alternatives of paper and re-usable bags. The reason they don't recycle them is that, so far, it's not that easy to do. "Plastic bags are used because of convenience," he said, "and they'll be recycled more as it becomes more convenient."

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## Mervis to open Urbana, Illinois recycling center

Mervis Industries received a special use permit from the Urbana City Council in Illinois to build a recycling center. The location was a former drive-in theater and is a 10 acre site that will include an 18 ft. tall, 8,000 sq. ft. metal building with truck dock and scale. Only 5 of the 10 acres will be used for the facility, the rest will be used for natural screening created by trees, bushes and flowers. Many existing trees will be salvaged and reused.

Open to the public, the new facility will offer residents and businesses a clean, convenient location to bring recyclable materials. The concept will be based on Advantage Recycling in Danville, Illinois. The recycling center will focus on being customer-friendly with easy in/easy out processing. The staff is also available to assist customers as they bring in materials. Material collected will be sorted and shipped off-site to be processed at one of Mervis' locations in Illinois or Indiana.

Customers can drop off a variety of materials including appliances, automobiles, farm equipment, electronics and lead acid batteries. Also all types of metals including aluminum, brass, copper, scrap iron and stainless steel will be purchased.

Mervis will continue operations at Marco Recycling in Champaign. Founded in 1930, Mervis Industries is a fourth generation, family-owned business and is one of the 20 largest recyclers in the U.S.

## TFC Recycling adds five CNG trucks to its fleet

TFC Recycling has added five new compressed natural gas (CNG) trucks to its fleet, making it the largest private owner and operator of clean-running, collection trucks in Virginia. It has also opened Hampton Roads' first fleet maintenance shop capable of working on CNG vehicles.

In just 1 year, TFC Recycling estimates that its 6 CNG trucks will displace 60,000 gallons of diesel fuel, which helps the environment and reduces the nation's dependency on foreign oil. Indeed CNG powered vehicles produce just half of the emissions that federal guidelines allow, making TFC Recycling's collection fleet among the cleanest in Virginia.

TFC Recycling's new 20 bay maintenance facility is CNG compliant and the first of its kind in Hampton Roads. Mechanics there are certified in alternative fuels, which means they can assist other businesses that are interested in CNG conversion and maintenance.

The six CNG trucks will be visible immediately, providing curbside pickup service in Chesapeake, Virginia Beach, Suffolk and the Outer Banks.

TFC Recycling is a locally owned and operated recycling and waste removal company, providing residential and commercial recycling and waste removal.



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"We tried another brand once," explains Lynn. "It cost a fortune for parts. Their service department was horrible and no one was helpful or cared about anything. Needless to say, we gathered our wits, embraced our Al-jon tradition and never looked back."

Over the past 16 years, Cascade has purchased eight Al-jon machines, which helped grow the business. "We never thought we would achieve what we have," states Lynn. "They have always gone over and above to make sure we had what we needed. If we have achieved some measure of success it was, in part, because of our relationship with the folks at Al-jon."

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## RecycleMania kicks off 2012 competition

RecycleMania springs back into action as college campuses compete to see who can reduce, reuse and recycle the most on-campus waste. For an eight-week period, beginning in early February and running parallel to the NCAA basketball tournament, colleges and universities take part in an exciting competition that increases recycling participation by students and staff, and raises awareness about the significance of waste reduction programs on campuses.

From February 5 through March 30, 2012, 605 schools representing all 50 states, the District of Columbia and 5 Canadian provinces will compete in 9 categories to see who recycles the most on a per capita basis, who produces the least amount of waste and who recycles the largest percentage of their overall waste stream. Colleges and universities choose to participate in either the formal competition which ranks them based on standardized weight measurements, or as part of the less formal "Benchmark" division. In both cases, schools submit weight data for paper, cardboard, cans and bottles, food waste and general trash each week, and are, in turn, able to see how they measure up against each other in the continuously updated results. The 2012 tournament will feature a new electronics category, as well as a promotional video contest at [www.youtube.com/recyclemania](http://www.youtube.com/recyclemania) based on a "Spirit of Recycling" theme.

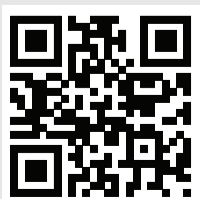
"RecycleMania's power comes from the way it taps school spirit to motivate students who may not react to a traditional environmental message," according to Bill Rudy, recycling manager at Brigham Young University and president of RecycleMania, Inc.

RecycleMania is an opportunity for schools to raise awareness about their campus recycling programs as well as waste reduction and conservation issues in general.

In 2011, 630 participating colleges and universities collected over 91 million pounds of recyclables and compostable organics. This prevented the release of 127,553 metric tons of carbon dioxide equivalent into the atmosphere. Top schools in the competition included California State University, San Marcos in the Grand Champion category, Union College of Schenectady, New York, in the Per Capita Classic, and North Lake College of Irving, Texas, winner of the Waste Minimization category.

The RecycleMania competition began in 2001 as a challenge between Miami University of Ohio and Ohio University. Today, it is independently owned by RecycleMania, Inc., which is governed by a steering committee made up of recycling managers from participating universities. Program management for the 2012 RecycleMania Tournament is provided by the national nonprofit Keep America Beautiful.

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For a complete list of participants, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

## Biodegradable Products Institute logo program expands

To handle a five-fold increase in compostable product certifications, the Biodegradable Products Institute (BPI) has announced that its successful "Compostable Logo" effort is now administered by NSF International.

The NSF is a global certification organization which will verify manufacturers' claims of compostability in large-scale composting facilities. Companies submit products and testing data to substantiate the biodegradation, disintegration and absence of eco-toxicity of their products. After certification, manufacturers, authorized distributors and resellers may then license the BPI's "Compostable Logo" for marketing claims.

NSF International will now accept and review certification requests to ensure that all BPI certified products continue to meet ASTM D6400 or

ASTM D6868 standards for compostability.

Actual licensing and market development efforts will remain the responsibility of the BPI.

NSF provides third-party, independent product certification and testing, and is actively involved in the development of global public health standards. NSF brings to the BPI's certification program more than 65 years' experience, including national and international accreditations.

The new service agreement is designed to bolster the credibility and capability of the 10-year-old BPI "Compostable Logo" program, which has experienced unprecedented growth in recent years. By partnering with NSF, the BPI certification program will also comply with the requirements of ISO Guide 65, the internationally recognized standard, for third-party certification bodies.

## RailAmerica reports January 2012 monthly carloads

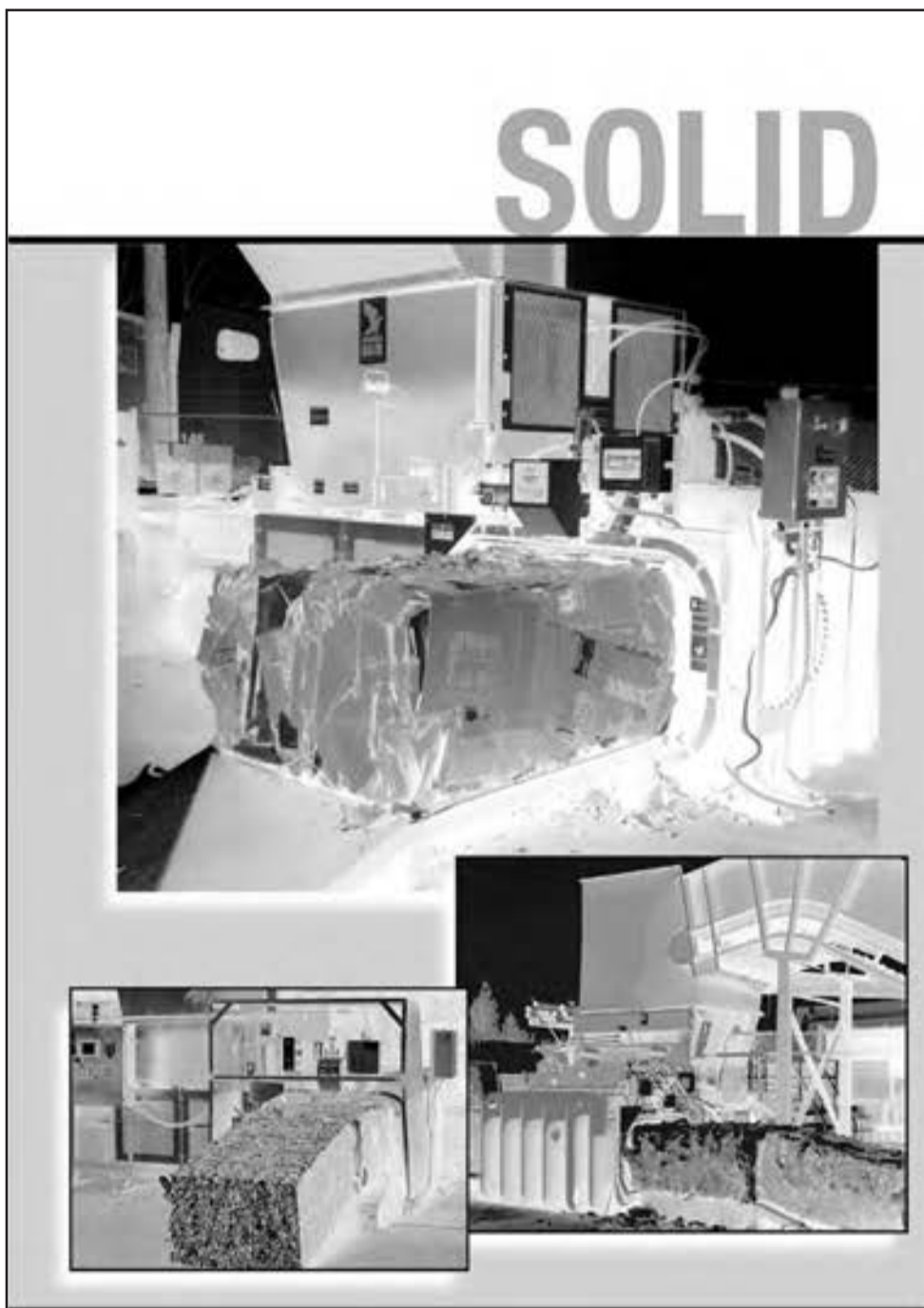
RailAmerica, Inc. reported that its total freight carloads in January 2012 were 71,737, up 4.0 percent from 68,963 in January 2011.

The company increased shipments in January 2012 in 7 out of 12 commodity groups compared to January 2011. The largest increases were in other, forest products and motor vehicles. Other was up primarily due to a non-recurring move in the Central region driven by a Class I partner diverting traffic to one of our roads. Forest products increased primarily due to higher shipments in the West and

Northeast regions. Motor vehicles were higher primarily due to increased shipments in the West and Midwest regions.

The largest declines were in coal and petroleum. Coal carloads were lower primarily due to fewer shipments in the Central region largely due to mild weather. Petroleum carloads decreased primarily due to lower shipments in the West region.

January 2012 carloads include 557 carloads from the acquisition of three railroads in Alabama. On a "same railroad" basis, carloads increased 3.2 percent.



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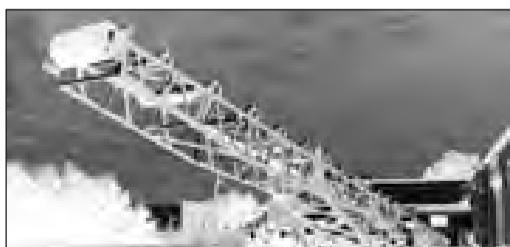


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# Goodyear names finalists for hero award

The Goodyear Tire & Rubber Company has named the finalists for its 29th North America Highway Hero Award.

Finalists include a Minnesota driver who came to the aid of an elderly couple that had been trapped in a car during a raging snowstorm; an Ontario driver who pulled a motorist from a car minutes before it exploded; an Ohio driver who rescued a trapped motorist whose car had plunged into a pond; and another Ohio truck driver who positioned himself between a woman and a gun-wielding attacker.

These professional truck drivers – John Crozman of Albertville, Minnesota; Melville Farnell of Shelburne, Ontario; John Neumeier of Russia, Ohio; and Mike Schiotis of Seville, Ohio, were named finalists for the trucking industry’s most prestigious award for heroism.

“The Highway Hero Award recognizes professional truck drivers who put their lives on the line to help others,” said Phillip Kane, vice president, Goodyear Commercial Tire Systems. “Each of our Highway Hero finalists rescued strangers who were in life-threatening peril, and each is a worthy candidate for the award.”

The finalists for the 29th Goodyear North America Highway Hero Award include:

John Crozman of Albertville, Minnesota, who drives for Long Haul Trucking. While driving down a rest stop access road near Summit, South Dakota, in the middle of a severe snowstorm, Crozman noticed a candle flickering inside a car that was parked on the side of the highway. Fighting sub-zero winds, Crozman walked to the car and

found an elderly couple inside. Ill-equipped for the dangerous weather, they had been trapped in the car for more than four hours. Crozman led the shivering man and woman to his truck and let them spend the night in his warm sleeper cab.

The next day, he made sure they were safe and their car was rescued before continuing along his route. Authorities noted that the severely low temperatures could have been deadly to the couple if not for Crozman’s actions.

Melville Farnell of Shelburne, Ontario, a driver for Tupling Farms Produce Inc. Farnell was making a delivery on May 13, 2011, when a car that was traveling in the opposite direction veered into the path of his truck and slammed into it head-on. The impact caused Farnell’s tractor-trailer to jack knife. Diesel fuel began leaking onto the highway. Though shaken, Farnell approached the car, which had come to a stop in a ditch, and observed a semi-conscious male in the driver’s seat. Farnell broke the driver’s side window and pulled the motorist to safety. Minutes later, the car exploded. Farnell was credited with saving the motorist’s life by acting swiftly and putting his own life in danger just before the explosion.

John Neumeier of Russia, Ohio, who drives for Bohman Trucking. Neumeier was loading his milk delivery truck in November, when a car driving down a nearby road missed a curve and plunged into an eight-foot deep pond. As the car began to sink, Neumeier looked to see if anyone was inside and he could see the driver’s cell phone light. Knowing he had little time to waste, he grabbed a large wrench, dove into the pond, and beat on the driver’s side window until it broke.

Neumeier pulled the driver, a 65 year-old man, out by his feet and hauled him to shore. The man was taken away by ambulance.

Mike Schiotis of Seville, Ohio, a driver for Panther Expedited Services Inc. was driving to his destination in Pennsylvania when he saw a woman walking with a man close behind her. Thinking they were injured, he slowed down and observed that the man was pointing a gun at the woman. Schiotis stopped his truck and the woman began pounding on his door, screaming, “Help me! He’s going to kill me!” Schiotis jumped out of his truck and positioned himself between the woman, who was bleeding from the head, and her assailant. He helped the woman into his rig and decided to take her to the next truck stop. The gun-carrying man got back in his car and began to follow Schiotis’ truck, which continued along the interstate instead of stopping. Schiotis notified the Pennsylvania State Highway Patrol, then used his CB radio to tell other truckers in the area about what was transpiring. Another driver, who was behind Schiotis’ 18 wheeler, heard him and decided to help. Together, they drove side-by-side, weaving back and forth to prevent the gunman from closing in on Schiotis’ tractor. This gave troopers time to catch up with the man and apprehend him.

Trucking industry journalists are now voting on this year’s Highway Hero finalists. The driver who will be named the 2011 Goodyear North America Highway Hero will receive a specially designed ring, a plaque and a cash award. Each of the other finalists will receive a plaque and a cash award.

# Liberty Tire partners with University of Tennessee

Liberty Tire Recycling, a provider of tire recycling services in North America, is partnering with the University of Tennessee’s Center for Athletic Field Safety on a series of studies to test the potential benefits and role that crumb rubber plays in maintaining a natural grass athletic surface. The company is funding a series of studies over a two-year period to quantify the value proposition that crumb rubber infill offers as an enhancement to natural grass, and how it can potentially improve the quality of the surface and safety for the athletes using it.

“Crumb rubber infill used on athletic surfaces provides a host of benefits. For the athlete, it offers a safer, higher-performing surface. It also lengthens play on the surface, particularly in high-traffic areas of the field,” said Mike Wezel, vice president of sales and marketing for Liberty Tire Recycling.

Initial studies conducted include a simulated foot traffic test to determine the optimal crumb rubber particle size and depth for optimizing field performance, a moisture and temperature test and an assessment of how long the turf season can potentially be extended through the use of crumb rubber.

The use of crumb rubber infill in natural grass surfaces has been proven to maximize shock absorption by creating a softer and safer playing surface for athletes while using less water.



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## ALTERNATIVE ENERGY

### Element Markets constructs landfill gas to pipeline project in Ohio

Element Markets, LLC, a Houston-based biomethane developer, is constructing a large biomethane project at the APEX Sanitary Landfill in Amsterdam, Ohio. The APEX landfill gas utilization project is expected to produce over 32,000,000 MMBtu of biomethane throughout its operational life, which is sufficient to power over 19,000 homes.

Element Markets was selected to construct the project following a competitive process conducted by Environmental Logistics Services LLC, owner of the APEX Sanitary Landfill, in which some of the country's largest landfill gas developers participated. The project will utilize landfill gas to produce pipeline quality biomethane and associated environmental commodities to be sold into the power and transportation sectors.

The APEX Sanitary Landfill covers 1,285 acres in Ohio's rural Jefferson and Harrison Counties. Currently, the landfill is receiving approximately 1,800,000 tons of waste annually, making it one of the fastest growing landfills in the United States.

Element Markets' in-house development and engineering staff, with decades of experience in landfill gas and gas processing-related projects, will be managing development of the project. The APEX landfill gas utilization project is expected to be operational in 2013.

### Fall River Mayor and Ameresco mark completion of solar panel installations

Ameresco, Inc., an energy efficiency and renewable energy company, has joined with Fall River Mayor Will Flanagan to recognize the completion of the first phase of a multi-phase energy efficiency initiative and renewable energy project. During a ribbon-cutting ceremony, attendees gathered at Frank M. Silvia Elementary School to view the recently installed solar photovoltaic (PV) electricity generating system. Similar systems have been installed on two other Fall River schools and outside of the City's water treatment plant.

"Fall River's solar energy investments are a significant contribution to Massachusetts' clean energy revolution, which aims to reach Governor Patrick's goal of installing 250 megawatts of solar energy by 2017. We're already in the midst of a 40-fold increase in solar installations," said Mark Sylvia, commissioner of the Department of Energy Resources. "Adopting renewable energy keeps more municipal energy dollars in the community, employs clean energy workers, and provides a technological and scientific energy learning tool for Fall River students."

During the event, the Mayor also highlighted the completion of the first phase of a comprehensive Energy Savings Performance Contract (ESPC), expected to save the City more than \$2.7 million in energy savings over the life of the contract. The contract work also is expected to reduce Fall River's carbon footprint by 25.8 million lbs. of carbon dioxide over the contract term.

The ESPC incorporated a \$650,000 federal grant, and will include the installation of more than 3,400 energy efficient light fixtures in two City schools and the Government Center with no capital cost contribution from the City's budget. Additionally, the initiative includes a Power Purchase Agreement (PPA) with the City for Ameresco to design, build, own, operate and maintain four solar PV electricity generating systems.

As part of the first phase of the project, Ameresco designed and built four photovoltaic systems for the City. The combination of all the systems totals 2,624 solar modules for a rating of 576 kW. As part of its PPA with Ameresco, the City of Fall River will buy the power at a lower rate than it currently pays for electricity, and that rate will be fixed for 20 years.

As part of the solar installations, Ameresco deployed several educational tools for the students including a large-screen LCD television in the lobby of the schools that will display real-time performance and measures of the solar PV panels' associated environmental benefits. The company also established a dedicated web page for an online display of the rooftop weather station data and solar PV electricity output for use by students and teachers.

Ameresco will now move into additional phases of the ESPC, which is a budget-neutral way to reduce energy use and associated costs, and renew facilities and building systems without burdening shrinking capital budgets. Ameresco guarantees a minimum level of energy savings to the City of Fall River over the term of the contract and that the cash inflows from the project will exceed its cash requirements, offsetting the costs of these improvements.



—Mayor Will Flanagan

*The man who can drive himself further once the effort gets painful is the man who will win.*

—Roger Bannister

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## ALTERNATIVE ENERGY

### Waste Management named outreach program partner of the year

The U.S. Environmental Protection Agency's (EPA) Landfill Methane Outreach Program (LMOP) has named Waste Management, Inc. (WM) its 2011 Industry Partner of the Year for leadership in developing waste-based renewable energy. Waste Management is the largest landfill gas-to-energy (LFGTE) developer and operator in North America and is continuing to expand its roster of energy facilities. This year's awards were presented at the 15th Annual LMOP Partner and Project of the Year Awards Ceremony in Baltimore, Maryland.

In 2011, WM commissioned 9 LFGTE facilities with a collective capacity of 29.5 MW, bringing the number of LFGTE facilities to 133 active projects in North America. In total, these facilities produced the equivalent of 617 MW of power – enough to power 473,000 homes and offset the consumption of over 2.4 million tons of coal. Waste Management plans to commission four additional

projects in the first quarter of 2012 and is working on at least eight additional projects through its dedicated in-house project development team, which works on both WM-owned sites and those owned by municipalities and industry partners.

Waste Management was active in two projects that won 2010 Project of the Year. The first, the University of New Hampshire EcoLine™ project, brought gas from Waste Management's Turnkey Landfill through a 12-mile pipe, supplying 85 percent of the campus's heat and electricity needs. The second, at the Altamont Landfill Resource and Recovery Facility in Livermore, California, consisted of a partnership with Linde North America. There, the companies produce up to 13,000 gallons of liquefied natural gas (LNG) from landfill gas every day to fuel hundreds of WM fleet vehicles. The Altamont project is the largest landfill gas-to-LNG project in the world.

*Employer: "In this job we need someone who is responsible." Applicant: "I'm the one you want. On my last job, every time anything went wrong, they said I was responsible."*

### TFC Recycling adds five more CNG trucks to its fleet

TFC Recycling has added five new compressed natural gas (CNG) trucks to its fleet, making it the largest private owner and operator of clean-running, collection trucks in Virginia. It has also opened Hampton Roads' first fleet maintenance shop capable of working on CNG vehicles.

In just 1 year, TFC Recycling estimates that its 6 CNG trucks will displace 60,000 gallons of diesel fuel, which helps the environment and reduces the nation's dependency on foreign oil. Indeed CNG powered vehicles produce just half of the emissions that federal guidelines allow, making TFC Recycling's collection fleet among the cleanest in Virginia.

TFC Recycling's new 20-bay maintenance facility is CNG compliant and the first of its kind in Hampton Roads. Mechanics there are certified in alterna-

tive fuels, which means they can assist other businesses that are interested in CNG conversion and maintenance.

The six CNG trucks will be visible immediately – providing curbside pickup service in Chesapeake, Virginia Beach, Suffolk and the Outer Banks. TFC hopes to add more cities to its network, enabling them to join in a nationwide movement to switch more trucks from petroleum-based fuels to natural gas.

TFC Recycling is a locally owned and operated recycling and waste removal company, providing residential and commercial recycling and waste removal. Established in 1973, TFC Recycling believes "it's not how many customers we serve, but how we serve our customers." TFC Recycling employs more than 350 people and recycles more than 250,000 tons annually.

### \$225 million plainfield renewable energy biomass project launched

Science Applications International Corporation (SAIC) and the Carlyle Energy Mezzanine Opportunities Group (Carlyle) have announced an agreement

to provide financing for construction of the \$225 million Plainfield Renewable Energy (PRE) biomass project. SAIC will also provide engineering, procurement and construction services for the project under a fixed-price, date certain contract.

The PRE project is owned by a subsidiary of Enova Energy Group and located on a 27-acre site in Plainfield, Connecticut. The plant will employ Best Available Control Technology (BACT) to control emissions and is fully certified as a renewable power source in the State of Connecticut. The project will create 400 jobs – 300 during the 2 years of construction, and 100 direct and indirect permanent positions.

The PRE project will generate 37.5 megawatts (net) of clean energy to power the equivalent of 37,000 homes. The project will consume wood readily available from various sources such as construction and demolition debris, recycled wood pallets and land clearing materials. Connecticut Light & Power will purchase power from the plant based on a 15-year off-take agreement, utilizing the plant's status as a renewable power source. The PRE project has all necessary permits to construct the facility and anticipates completion in December 2013.

"This project is great news for Plainfield, the region, and the state. It will create 400 jobs, bring more than \$800,000 per year in tax revenues to the town, and increase the supply of electricity to the region. It represents exactly the type of renewable energy projects that the state should attract," said the Town of Plainfield First Selectman Paul Sweet.

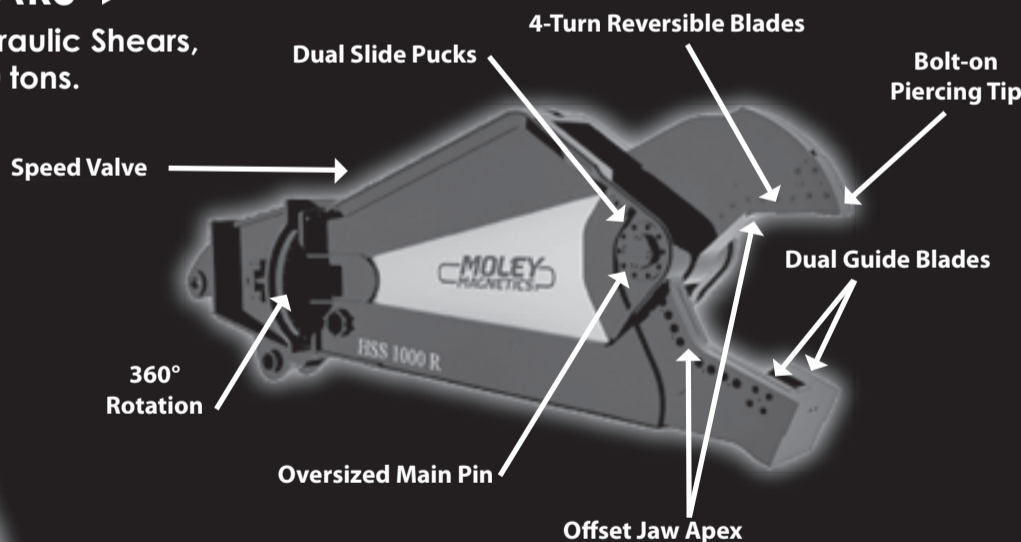
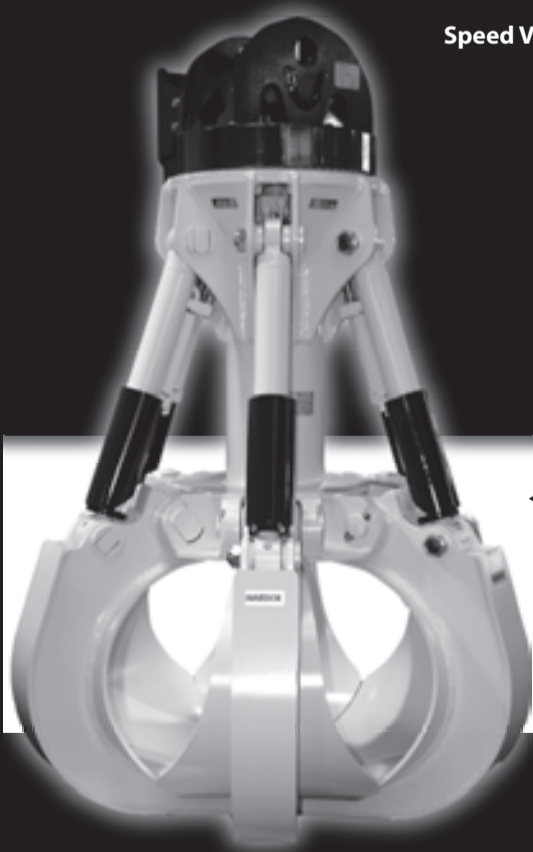
*The best way to get a puppy is to beg for a baby brother – they'll settle for a puppy every time.*

—Winston Pendelton

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# METALS

## Commercial Metals Company reports results of stockholder meeting

Commercial Metals Company announced the preliminary voting results of its annual meeting of stockholders, held in Irving, Texas.

The company's stockholders elected the following three directors to serve as directors until the 2015 Annual Meeting of Stockholders and until their successors are elected:

Harold L. Adams – chairman emeritus of RTKL Associates, Inc. of Baltimore, Maryland; director of Legg Mason, Inc. and Lincoln Electric Holdings, Inc. Adams sits on the company's Audit and Finance Committees.

Joseph Alvarado – president and chief executive officer of the company; director of Spectra Energy Corp.

Anthony A. Massaro – chairman of the board of directors; former chairman and CEO of Lincoln Electric Holdings,

Inc.; director of PNC Financial Services Group, Inc. Massaro is a member of the Company's Audit and Nominating and Corporate Governance Committees.

The stockholders also approved the following three proposals:

•A proposal to ratify the appointment of Deloitte & Touche LLP as the company's independent registered public accounting firm for the fiscal year ending August 31, 2012;

•A proposal to approve, on an advisory, non-binding basis, the compensation of the company's named executive officers as disclosed in the company's proxy statement for the 2012 Annual Meeting; and

•An advisory, non-binding proposal to hold an advisory vote on executive compensation every year.

## Sims acquires 20 percent investment in Chiho-Tiande

Sims Metal Management Limited has made a minority investment in Chiho-Tiande Group Limited (CTG), a Hong Kong listed metals and electronics recycler with operations in the People's Republic of China and Hong Kong.

With main processing facilities in Taizhou and Ningbo, CTG is a mixed scrap metals importer in China and operates three core businesses: a metal recycling business, foundry business and wholesale scrap metal brokerage business.

CTG has expanded into domestic ferrous and nonferrous scrap metal recycling in Shanghai and recently announced further expansion plans to Yantai on the Bohai Coast and Hong Kong with new metals and electronics recycling facilities.

SimsMM has acquired 16 percent of the existing shares of CTG from founder chairman Ankong Fang and Delco Participation B.V. (Delco), a Netherlands-based scrap metal company. Delco has granted an option to SimsMM to acquire a further two percent of CTG.

In addition, subject to approval by CTG's independent shareholders, SimsMM will subscribe for a convertible bond and be issued warrants. After all instruments are exercised or converted, SimsMM expects to hold 20 percent of the fully diluted issued capital of CTG. In order to support the continued growth plans of the company, Fang and Delco will re-invest two-thirds of the proceeds received from SimsMM into convertible bonds issued by CTG on the same terms as SimsMM.

## Coca-Cola Bottling System and Novelis sign aluminum agreement

Coca-Cola Bottlers' Sales & Services Company LLC (CCBSS), the Coca-Cola entity purchasing aluminum can sheet for the Coca-Cola System in North America, and Novelis Inc., a producer of aluminum rolled products, have announced the signing of a multi-year agreement for the supply of aluminum can sheet. The agreement took effect January 1, 2012.

The agreement covers the supply of aluminum can body stock, can end stock and can tab stock to the various producers

of beverage cans for Coca-Cola in North America.

The contract continues a decades-long relationship between the two companies and maintains Novelis' role as the primary supplier of aluminum can sheet to Coca-Cola in North America.

In the context of the new contract, the companies have also agreed to dismiss litigation pending in the Georgia State Court System, relating to previous contractual terms.




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$363.00	\$358.00	\$375.00	\$440.00	\$450.00
#1 Bundles	per gross ton	358.00	355.00	372.00	418.00	445.00
Plate and Structural	per gross ton	380.00	360.00	370.00	413.00	445.00
#1 & 2 Mixed Steel	per gross ton	375.00	358.00	370.00	380.00	405.00
Shredder Bundles (tin)	per gross ton	320.00	290.00	280.00	330.00	330.00
Crushed Auto Bodies	per gross ton	320.00	290.00	280.00	340.00	340.00
Steel Turnings	per pound	200.00	149.00	215.00	200.00	275.00
#1 Copper	per pound	3.15	3.19	3.51	3.60	3.60
#2 Copper	per pound	3.02	3.09	3.36	3.50	3.51
Aluminum Cans	per pound	.57	.64	.75	.79	.78
Auto Radiators	per pound	1.85	1.90	2.20	2.12	2.20
Aluminum Core Radiators	per pound	.65	.60	.69	.74	.72
Heater Cores	per pound	1.72	1.68	1.75	1.75	1.85
Stainless Steel	per pound	.60	.65	.85	.95	.95

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

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## METALS

### Total steel import permits up 21 percent in January 2012 Import market share at 23 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 total steel import permit applications for the month of January totaled 2,691,000 net tons (NT). This was a 21 percent increase from the 2,230,000 permit tons recorded in December and a 35 percent increase from the December preliminary imports total of 1,997,000 NT. Import permit tonnage for finished steel in January was 2,103,000 NT, up 39 percent from the preliminary imports total of 1,510,000 NT in December. January 2012 total and finished steel import permit tons would annualize at 32,295,000 NT and 25,232,000 NT, up 14 percent and 16 percent, respectively, versus the 28,448,000 NT and 21,871,000 NT imported in 2011. The estimated fin-

ished steel import market share in January was 23 percent.

In January, the largest finished steel import permit applications for offshore countries were for Korea (358,000 NT, up 78 percent from December), Turkey (184,000 NT, up 179 percent), Japan (150,000 NT, up 45 percent), Germany (105,000 NT, up 25 percent) and China (95,000 NT, up 10 percent).

Finished steel import permits for products that registered large increases in January versus the December preliminary include reinforcing bar (up 214 percent), heavy structural shapes (up 177 percent), cold rolled sheets (up 69 percent), cut length plates (up 68 percent), line pipe (up 64 percent), oil country goods (up 44 percent), standard pipe (up 43 percent) and sheets and strip all other metallic coated (up 34 percent).

### December steel shipments up 9.2 percent from November

The American Iron and Steel Institute (AISI) reported that for the month of December 2011, U.S. steel mills shipped 8,085,761 net tons, a 9.2 percent increase from the 7,404,828 net tons shipped in the previous month, November 2011, and a 13.7 percent increase from the 7,111,031 net tons shipped in December 2010. Ship-

ments for 2011 are 91,865,449 a 10.1 percent increase vs. 2010 full year shipments of 83,443,836.

A month-to-month comparison of shipments shows the following changes: hot rolled sheet, up 15 percent, hot dipped galvanized sheets and strip, up 2 percent and cold rolled sheet, up 2 percent.

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## WASTE

### Revenue up for Waste Connections

Waste Connections, Inc. reported its results for the fourth quarter of 2011. Revenue totaled \$379.8 million, a 13.0 percent increase over revenue of \$336.0 million in the year ago period. Operating income was \$74.4 million, versus \$67.7 million in the fourth quarter of 2010. Net income attributable to Waste Connections in the quarter was \$38.0 million, or \$0.34 per share on a diluted basis of 112.4 million shares.

Adjusted net income attributable to Waste Connections in the quarter was \$38.8 million, or \$0.35 per share, adjusting for a loss on disposal of assets and acquisition-related costs. Adjusted net income attributable to Waste Connections in the prior year period was \$36.7 million, or \$0.32 per share.

Non-cash costs for equity-based compensation and amortization of acquisition-related intangibles were \$8.2 million (\$5.1 million net of taxes, or approximately \$0.05 per share) in the quarter compared to \$6.6 million in the year ago period.

For the year ended December 31, 2011, revenue was \$1.51 billion, a 14.1 percent increase over revenue of \$1.32 billion in the prior year. Operating income in 2011 was \$317.1 million, up 16.4 percent from \$272.4 million in the prior year. Net income attributable to Waste Connections in 2011 was \$165.2 million, or \$1.45 per share on a diluted basis of 113.6 million shares.

### \$25 million construction project at landfill begun

Republic Services of Southern Nevada has begun large-scale construction work under oversight by the U.S. Environmental Protection Agency (EPA) at Sunrise Landfill, a 440 acre closed municipal solid waste landfill, located 3 miles outside of Las Vegas city limits in Clark County.

The \$25 million construction project, expected to last through 2012, was awarded to Las Vegas Paving Company and will employ 40 local construction workers. The project stems from a 2008 Consent Decree requiring Republic, the landfill operator, to install extensive stormwater controls, an armored cover, and landfill gas monitoring system; complete and monitor a groundwater monitoring system; and develop a long-term operation and maintenance strategy.

Under the settlement, Republic is utilizing clean diesel technology to place one million cubic yards of soil and rock within the site.

The EPA-approved remedy ensures effective control of the landfill with a durable and cost-effective landfill cover and stormwater system that address the unique geographic and climatic characteristics of Nevada's arid desert landscape. Since 2008, 5 new groundwater monitoring wells have been drilled and 41 wells completed for quarterly sampling, as well as 30 landfill gas monitor-

ing probes installed around the perimeter of the landfill.

An inadequate cover and stormwater system coupled with a storm in September 1998 resulted in a discharge of waste into the Las Vegas Wash and, ultimately, Lake Mead – a primary drinking water resource for southern Nevada, including the Las Vegas metro area, as well as the Phoenix metro area and southern California.

Sunrise Mountain Landfill is unlined and contains more than 18 million tons of waste, including municipal solid waste, medical waste, sewage sludge, hydrocarbon-contaminated soils, asbestos and construction waste.

The landfill was operated on behalf of the county by entities related to Republic Services of Southern Nevada from the 1950s through 1993.

Following the landfill cover failure in 1998, EPA cited Republic Dumpco and the Clark County Public Works Department for violations of the Clean Water Act and the Resource Conservation and Recovery Act. At that time, EPA ordered the company to implement stormwater control plan; repair the existing drainage system; upgrade the landfill cap to federal standards; control and monitor methane and groundwater; and submit a plan to maintain and monitor the site.

### Covanta reports increased revenue

Covanta Holding Corporation reported financial results for the 3 and 12 months ended December 31, 2011.

- Revenue increased 4 percent to \$1,650 million.

- Adjusted EBITDA increased 5 percent or \$22 million to \$492 million.

- Free cash flow was in line with guidance at \$280 million.

Shareholder returns totaled \$272 million, including quarterly dividend paying \$0.30/share annually.

Operating income increased by \$63 million, or 41 percent, to \$218 million compared with 2010. Excluding the non-cash write-downs in 2010, operating income increased by \$29 million, or 15 percent, primarily as a result of higher recycled metal revenues, service fee contract escalations, higher waste volumes and operational improvements. This increase was partially offset by lower debt service pass through revenue, lower operating income at their biomass facilities and lower energy pricing.

The company repurchased \$230 million of common stock, or 14.4 million shares (10 percent of outstanding shares), at a weighted average cost of \$15.99 per share in 2011. Aggregate repurchases since June 2010 total \$325 million, or 20.5 million shares, representing 14 percent of outstanding shares. In the first quarter, the company also initiated a quarterly cash dividend in the amount of \$0.075 per share (\$0.30 per share annualized).

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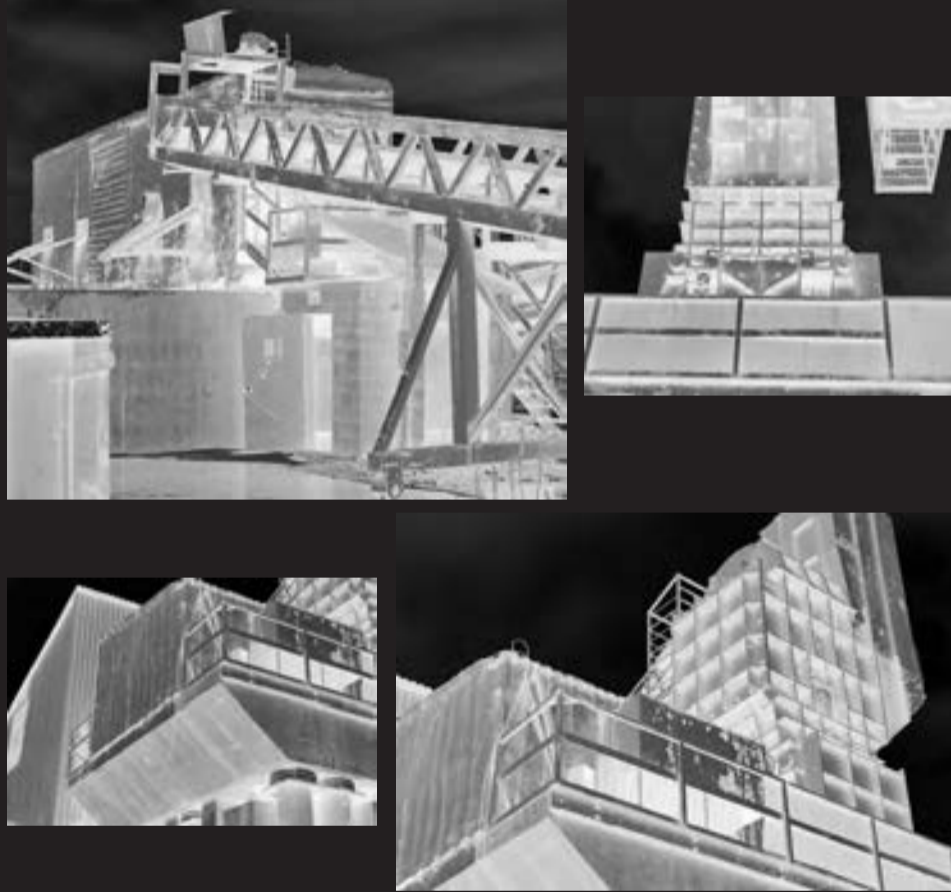
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## WASTE

# Website aims to get used clothing out of landfills

For the first time ever, clothing brands, retailers, consumers, municipalities, charitable organizations, academics and recyclers are joining forces to promote the recycling of clothing and textiles. The Council for Textile Recycling (CTR) recently released its new website aimed at educating the public on the importance of recycling all clothing and textiles, not just those that are "gently worn."

"Our goal is to have zero post-consumer textile waste going into landfills by 2037," said Eric Stubin, CTR chairman of the board. "In the United States the average person discards 70 lbs. of old clothing, shoes and household textiles in their local landfill each year. We're educating people that clothing and textiles are among the most recyclable items in their home."

In the U.S., the EPA estimates more than 25 billion pounds of clothing and textiles are generated annually. The agency also reports more than 21 billion pounds (70 lbs. per person) of post-consumer textile waste ends up in landfills every year, while only 15 percent of all post-consumer textiles enter the recycling stream.

Studies conducted at both the federal and state level show clothing and textiles make up more than 5 percent of all materials going into local landfills. "Consumers don't realize 95 percent of all clothing and textiles is recyclable," said Jackie King, executive director of the Secondary Materials and Recycled Textiles Association and member of the board of directors of the Council for Textile Recycling. "As long as items are clean and dry, even those that are stained or torn, they can be processed by textile recyclers, extending the end-of-life of the material."

Consumers are encouraged to visit the Council's new website at: [www.wear-donate-recycle.org](http://www.wear-donate-recycle.org) to learn more and to join the organization. The Council for Textile Recycling will compile a resource library for consumers, municipalities, apparel and footwear brands and retailers interested in developing clothing and footwear recycling programs. A database of end-users including charities and private sector recyclers from all aspects of the industry will also be available to members of the Council for Textile Recycling.

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# WASTE

## Kraft Foods wages war on waste

Kraft Foods' employees are making steady progress reducing the amount of manufacturing waste they produce. And in doing so they're reducing their environmental impact. Together, they're finding better uses for waste and even turning manufacturing byproducts into new energy sources.

"We're waging war on waste, one plant at a time," said Christine McGrath, vice president, Global Sustainability. "Today, we have 36 facilities in 13 countries that send zero waste to landfills, and we've reduced our manufacturing waste by 50 percent since 2005. Our strategy is simple: generate less waste and find new uses for the waste we do produce. And our employees are doing just that."

Employees continue to raise the bar by improving efficiency, by changing behavior, business practices and culture, and by creating new partnerships to turn waste into something of value. For Kraft Foods, manufacturing accounts for the vast majority of its solid waste output, so its plants are a natural place to take action.

In 2007, the company launched a program with the global recycling company Sonoco Recycling, using its Sonoco Sustainability Solutions (S3) service offering to substantially reduce waste in plants. The ultimate objective: send zero waste to landfills.

Today, 36 Kraft Foods facilities have achieved zero-waste-to-landfill status, including 24 plants in Europe and 12 facilities in North America. Elsewhere, many plants have made significant reductions through partnerships to put waste to work.

To learn more about Kraft's waste-reduction efforts, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

## Waste Management launches Rotopress collection trailers in North America

Waste Management, Inc. started a pilot program that will introduce Rotopress waste collection trailers for the first time in North America to improve the flexibility of its waste collection operations.

The pilot program will first rollout in Houston, Texas, followed by pilot projects in San Diego, California, Sacramento, California, Milwaukee, Wisconsin and Camden, New Jersey.

Waste Management anticipates the program to provide greater operational flexibility and reduce trips, fuel use, greenhouse gas (GHG) emissions and improved maintenance costs.

The Rotopress modular technology, combined with a decoupled tractor-trailer configuration using natural gas as its fuel source, provides a number of operational and environmental benefits to meet the challenges of a diversifying waste stream, reduces capital costs, reduces exposure to rising fuel prices and reduces vehicle emissions.

**•Greater Payload:** Rotopress is significantly lighter than most compaction-plate vehicles and allows the vehicle to carry up to 14 tons – generally 4 more tons than a conventional waste collection vehicle.

**•Decoupled Chassis:** The decoupled tractor-trailer configuration allows for better management of assets as chassis and body can be replaced separately on a more effective schedule. In addition, these assets are decoupled, which allows for future, fuel-saving class six tractor operations, which will operate on natural gas.

**•Ease of operation:** Compared with a rigid vehicle, a semi-truck trailer has a 40 percent smaller turning radius making it more maneuverable, which is very desirable in residential areas with cul-de-sacs and parked cars and in other tight areas. In the event of a breakdown, the truck and module can be separated reducing downtime and improved utilization of trucks.



**•Improved maintenance costs:** The unique corkscrew design of continuously moving waste to the front of the body will help prevent the rear axles from being overloaded while keeping sufficient weight on the front axle at all times. This makes the drive smoother and reduces wear on tires. The maintenance costs related to the tractor-trailers should be improved as there is less stress on the suspension and far fewer moving parts compared to a conventional rear loader.

**•No odor or leakage:** The Rotopress does not directly press any additional liquid out of the waste, but binds it by permanently mixing it with the dry material. This operation reduces the amount of free liquid in the system, lowering damage to the

body that can be caused by corrosion and additionally reducing leakage and odors considerably.

"Waste Management's investment in unique and innovative fleet technologies like the Rotopress is helping us operate our core business activities more efficiently as well as reduce the environmental footprint of our fleet," said Eric Woods, vice president, fleet and logistics at Waste Management. "The Rotopress will help contribute toward our corporate sustainability goal to increase fuel efficiency by 15 percent and decrease emissions by 15 percent by 2020. Our plan is to save 350 million gallons of fuel and reduce 3.5 million metric tons of carbon dioxide by 2020."

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## ELECTRONICS

# ISRI declares e-waste bill flawed

The Institute of Scrap Recycling Industries (ISRI) supports increasing the sustainable benefits of responsibly recycling electronics in compliance with legal requirements.

A vital component of sustainable recycling is ensuring the free and fair trade of specification grade commodities into the global marketplace. These commodities provide raw material substitutes that are needed to develop economies around the world.

ISRI also recognizes the inherent risks of exporting electronic equipment and components to countries and facilities that lack the expertise and technical capacity to process such shipments in a manner that is protective of worker safety, public health, and the environment. As such, ISRI strongly condemns "sham" recycling and illegal exports to countries and facilities that lack such expertise. In this context, ISRI supports policy that:

- Recognizes the sustainable benefits of and supports necessary financial incentives to responsibly recycle electronic equipment and components in the U.S.

- Promotes the free and fair trade of specification grade commodities derived from electronic equipment and components, including commodities with de minimis amounts of hazardous substances.

- Bans the export of electronic equipment and components for landfilling, or incineration for disposal.

- Requires that all shipments of used electronic equipment and components exported for direct reuse are effectively tested to confirm that key functions are



working and that such equipment and components are not obsolete.

- Requires that all pre-existing data and data storage devices are sanitized, purged or destroyed prior to export, unless otherwise agreed to by a valid commercial agreement between the domestic buyer and seller.

- Requires that all exports of electronic equipment, components and specification grade commodities are packaged and transported in a manner that is protective of human health and the environment and when appropriate prevents damage during transport.

- Requires that facilities engaged in electronics repair, refurbishment or processing located outside of the United States that import electronic equipment and components have in place:

- A documented, verifiable environmental, health and safety management system;

- The necessary capability to reuse, refurbish or recycle electronic equipment and components in a manner protective of worker safety, public health and the environment;

- Adequate business records to document compliance with environmental, health and safety legal requirements including the legality of shipments in importing countries;

- Necessary measures in place to manage hazardous wastes in a safe and environmentally sustainable manner through final disposition; and,

- A transparent process for each facility to demonstrate conformity to these requirements to the U.S. exporter.

## E-Waste Systems sets agreement with California's Zak Enterprises

E-Waste Systems, Inc., (EWSI) headquartered in London, has joined forces with Zak Enterprises of Santa Clara, California to expand its geographic coverage with immediate customer services.

Zak Enterprises is based in the heart of Silicon Valley and is among the longest serving companies in the end of life electronics industry. The new agreement will allow service delivery to customers of both companies with consistent, high quality standards. Product has already begun flowing from Zak customers in Europe through EWSI's network with more expected to follow.

EWSI's strategy includes acquiring and partnering with enterprises that share the commitment to providing compliant, cost-effective and environmentally-responsible services for e-waste processing, reverse logistics and hardware recycling. EWSI expects to extend its reach and offering to apply best practice professional management and to invest in state-of-the-art technology.

The three-year agreement defines the quality services under offer; provides for full audit trails of all transactions; provides a mechanism for sharing economic benefit; requires periodic reviews; and includes non-disclosure and non-circumvention terms.

### Is recurring fork failure becoming an issue?

Cracks and wear are the first signs of fork failure but lack of preventative maintenance and daily inspection normally leads to catastrophic failure at the most inopportune times.

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## AUTOMOTIVE

# Honda rated top manufacturer in PVC reduction efforts

The Ecology Center released its fourth consumer guide to toxic chemicals in cars at HealthyStuff.org, finding the Honda Civic at the top of this year's list, and the Mitsubishi Outlander Sport at the bottom. Over 200 of the most popular 2011 and 2012 model vehicles were tested for chemicals that off-gas from parts such as the steering wheel, dashboard, armrests and seats. These chemicals contribute to "new car smell" and a variety of acute and long-term health concerns. Since the average American spends more than 1.5 hours in a car every day, toxic chemical exposure inside vehicles can be a major source of indoor air pollution.

"Research shows that vehicle interiors contain a unique cocktail of hundreds of toxic chemicals that off-gas in small, confined spaces," said Jeff Gearhart, research director at the Ecology Center. "Since these chemicals are not regulated, consumers have no way of knowing the dangers they face. Our testing is intended to expose these dangers and encourage manufacturers to use safer alternatives."

Chemicals of primary concern include: bromine (associated with Brominated Flame Retardants, or BFRs); chlorine (indicating the presence of polyvinyl chloride, or PVC and plasticizers); lead; and heavy metals. Such chemicals have been linked to a wide range of health problems such as allergies, birth defects, impaired learning, liver toxicity and cancer. Automobiles are particularly harsh environments for plastics, as extreme air temperatures of 192°F and dash temperatures up to 248°F can increase the concentration of Volatile Organic Compounds (VOC's) and break other chemicals down into more toxic substances.

"Automobiles function as chemical reactors, creating one of the most hazardous environments we spend time in," added Gearhart.

The good news is overall vehicle ratings are improving. The best vehicles today have eliminated hazardous flame retardants and PVC. Today, 17 percent of new vehicles have PVC-free interiors and 60 percent are produced without BFRs.

Top ranking cars in this year's release are: 1) Honda Civic 2) Toyota Prius and 3) Honda CR-Z. Worst ranking: 1) Mitsubishi Outlander Sport 2) Chrysler 200 SC and 3) Kia Soul. The Civic achieved its ranking by being free of bromine-based flame retardants in all interior components; utilizing PVC-free interior fabrics and interior trim; and having low levels of heavy metals and other metal allergens. The Mitsubishi Outlander contained bromine and antimony-based flame retardants in the seating and center console; chromium treated leather on several components; and over 400 ppm lead in seating materials.

Most improved automakers in terms of average ratings for their vehicles are: VW (+42 percent) and Mitsubishi (+38 percent) and Ford (+30 percent). These represent improvement from the 2009/2010 models to the 2011/2012 models.

Two automakers had overall declining average scores from 2009/2010 to 2011/2012: Daimler AG (-29 percent) and Volvo (-13 percent).

On a fleet-wide basis PVC use is declining. Zero percent of pre-2006 vehicles had PVC-free interiors, as opposed to 17 percent of the 2011/2012 vehicle models.

Flexible PVC often contains hazardous plasticizers, or "softeners," called phthalates, which off-gas during vehicle use and are deposited on dust particles and windshields, where they cause "fogging."

In recent years, automakers have begun replacing PVC with polyurethanes and polyolefins, which contain fewer harmful additives and are easier to recycle.

Forty percent of vehicles tested in 2012 contained Brominated Flame Retardants (BFRs) in the vehicle interiors. BFRs refer to a wide range of chemicals added to materials to both inhibit their ignition and slow their rate of combustion. Alternatives exist which provide the degree of fire safety required under law without using organic compounds, as well as options in product redesign.

# TransAxle named 2012 Heavy Duty Remanufacturer of the Year

At the HDRG Remanufacturing Summit, the Heavy Duty Remanufacturing Group (HDRG) of the Automotive Parts Remanufacturers Association (APRA) awarded TransAxle its "Mike Hill Heavy Duty Remanufacturer of the Year Award." The award is given to a company or individual who has demonstrated innovative ways to create and grow a successful business model and in the process supported industry efforts to advance the science of remanufacturing.

According to Bill Gager, president of APRA/HDRG, the panel's decision to award TransAxle of Cinnaminson, New

Jersey this year's prestigious award was because they are a leading independent remanufacturer in the aftermarket.

"The recent emphasis of heavy duty engine parts remanufacturers as a constituent group within HDRG has expanded our horizons to an all-encompassing view of the marketplace including independents, major OEM component suppliers, OEM service as well as the traditional rebuilders of electrical, drivetrain, brake, and steering," stated Gager.

TransAxle was selected because they are a remanufacturer with expertise, depth of inventory and integrated logistics to pro-

vide a comprehensive solution to customers' remanufacturing needs. TransAxle has 4 remanufacturing plants, 22 distribution locations, 35 regional sales professionals, 50 inside technical experts and 80 delivery people.

TransAxle's Allison remanufacturing center is a ISO 9001-2008 certified com-

pany, ensuring a consistent, documented method of remanufacturing. The Company provides remanufactured product to on-highway, school bus, transit/coach bus, pickup truck/van, step van/parcel delivery, refuse, off-highway, construction, heavy equipment, mining/quarry and oil and gas industries.

# Ford Taxis help meet guidelines

Ford's role in helping San Francisco become what some call the "Greenest Taxi City in America" is being celebrated as the city's success in reducing fuel consumption and greenhouse gas emissions.

Among other things, the law calls for gas consumption and greenhouse gas emissions to be reduced 20 percent by 2012 with 1990 as the baseline year. Today, Ford vehicles account for 67 percent of San Francisco's green fleet.

Since 2008, San Francisco taxis have reduced gas consumption by 2.9 million gallons per year and lowered greenhouse gas emissions by 35,000 tons annually.

CNG-powered Transit Connect Taxis, for example, are available and soon will hit the streets of San Francisco. CNG-powered Transit Connect Taxis are being used in other parts of the country as well, servicing places such as Los Angeles, Chicago, Las Vegas and St. Louis.


CNG-powered Transit Connect Taxis aren't the only options available to replace the outgoing Escape Hybrid. The

all-new Fusion Hybrid, for example, provides an anticipated 6 more miles per gallon than the existing Fusion Hybrid.

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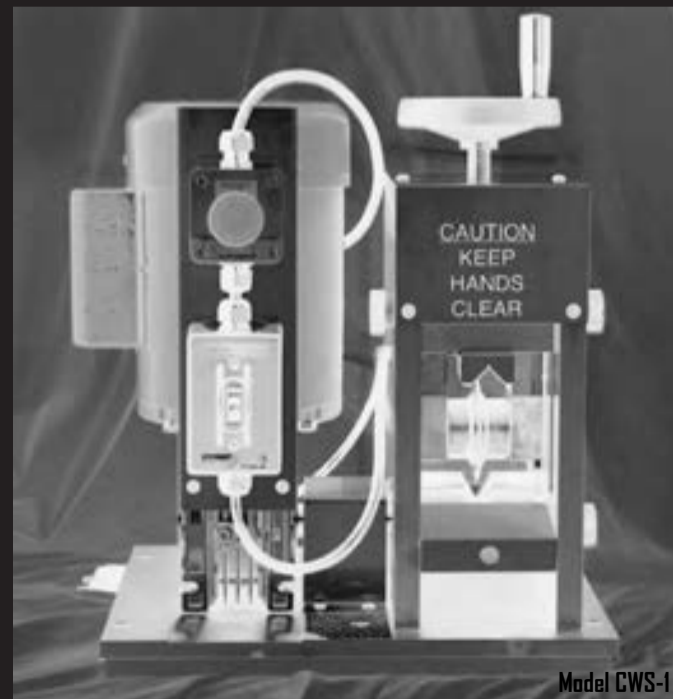
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# SALVAGING Millions

by Ron Sturgeon  
Autosalvageconsultant.com

## Using the internet to build your business – brand building on the web, part 1

Take the time to make sure that you get a web designer who has the skills to make your website a place that generates qualified prospects or direct sales.

Many web designers are very good at graphic design, but not as good with content issues. A website that looks good but delivers the wrong marketing message will not produce sales.

When you evaluate your designer, get past looking at the portfolio to assess his or her grasp of marketing basics. Does he or she understand your unique selling proposition, does he or she understand who buys from you and why?

Creating an appealing image for your company on the web is important, but not nearly as important as making sure that you are offering something to your customers that will motivate them to make an inquiry or place an order when they visit your site.

If your web designer is preoccupied with “building your brand” and less concerned with how the site will produce transactions, you have the wrong person.

Make sure that the designer knows what your customers want and what is unique about the way you fill those wants.

Now don't misunderstand me, the way your site looks and functions is important, but remember that people are only interested in what you have to offer today. What can you do for them today? And let's get real; they don't give a toot, in most cases, about your brand. Unless it offers what they need today.

### Does the site you are creating give your prospect what they want?

I have done a lot of consulting for businesses in the auto salvage niche because of my background. Visitors to websites want to know if the company has a part needed by the visitor.

Many times, the owners of these sites had created paths that required several clicks to search for a part. Make sure that your design makes it easy for the prospect to do what they came to do.

You should be involved in creating the content for your site because you have the best understanding of your customers and your business.

You should evaluate the proposed design and content by asking how easy it makes it for your customer to do business with you on the site. For auto parts sites, I like a sim-

ple design with a prominent search box. Make it easy for visitors to buy.

### Does your designer know search engine optimization (SEO)?

Most small business owners rely on search engines like Google, Bing, and Yahoo to deliver visitors to their sites. If you are planning on getting visitors, you need a designer that understands how to design search friendly websites.

At a minimum, you need a designer who knows enough not to do anything that will adversely affect your website's ability to achieve high rankings for the keywords that prospects use to search for your goods or services.

A few years ago, search engines had great difficulty in cataloging the pages of sites that were made using Adobe Flash. But Flash allowed designers to create beautiful sites. Many small businesses purchased these sites and only discovered later that they were invisible to Google and produced no visitors and no revenue.

Make sure your designer has a solid understanding of how you will market your website and can create a design that will complement those efforts.

For sure, you are not dealing with the right designer if he or she does not ask what your plan is to get visitors to the site.

### An architect for your web marketing effort.

I don't design sites or sell websites, but I frequently host calls that bring web designer/developer and business owner together to set clear expectations for the project and to make sure that the designer has the SEO capabilities necessary to create a design that will deliver visitors.

Just as it's wise to hire an architect when you build a home, it's wise to spend a little to make sure that your web designer can create a home on the Internet for your business that works the way it should to get inquiries and make sales.

If you have an existing site, I can give you a free report to show you how search-friendly your site is and recommend ways to improve site performance that you can share with the developer doing your website redesign.

The bottom line is, regardless of your business – make sure you are managing your online reputation. Next month, we'll explain some simple tools to help you manage the online reputation of your business.

## AUTOMOTIVE

# 96 percent of auto repair shops recycle scrap metal

Auto repair shops play a key role in protecting the environment with 96 percent reporting they recycle the scrap metal from automotive components, according to a study done by the Automotive Aftermarket Industry Association (AAIA).

Shops are recycling the scrap metal from many auto parts, including alternators, brakes, engines and transmissions. The volume of material recycled annually in the U.S. includes 74 million metric tons of iron and steel, 4.7 million metric tons of aluminum and 1.8 million metric tons of copper, according to the Institute of Scrap Recycling Industries (ISRI).

According to ISRI, recycling one ton of steel conserves 2,500 lbs. of iron

ore, 1,400 lbs. of coal and 120 lbs. of limestone, and the energy saved using recycled materials versus virgin materials is up to 58 percent for iron and steel, 92 percent for aluminum and 90 percent for copper. If the ferrous scrap that is recycled in the U.S. were put into rail cars, the train would stretch 11,349 miles, nearly halfway around the world.

In addition to recycling scrap metal, automotive aftermarket companies, including auto repair shops, manufacturers, distributors, retailers and jobbers, routinely recycle tires, batteries, used oil and oil filters, parts cleaning solvents, plastics, cardboard and paper, a/c refrigerant, dunnage and wood pallets.

## Insurance Auto Auctions paves way for recycling U.S. salvage vehicles in China

Insurance Auto Auctions, Inc. (IAA), a wholly-owned subsidiary of KAR Auction Services, Inc., created an agreement with Chen Jia, Inc. a wholly-owned subsidiary of Jiangsu Chenlong Resource Recycling Development Co. Ltd. in Zhangjiagang, Jiangsu, China. Chenlong Recycling is one of the first companies to obtain one of only a few recycling permits from the Chinese government that allows the import of salvage vehicles for the purpose of recycling.

In 2008, when IAA first met with Chenlong Recycling in China, plans

were drawn for them to build a multi-million dollar recycling center in Zhangjiagang. The recently completed facility is capable of processing hundreds of thousands of tons of scrap iron. They are the first in China to complete the installation of a shredder built specifically for the processing of scrap steel that includes automobiles coming from the United States and other countries. Through this new agreement, IAA has the ability to be a major salvage provider to this operation—specifically, lower-end vehicles for the purpose of recycling.

## Website helps owners junk cars

Cash For Junk Autos launched a website that works as a middle man between the local salvage yard and owners of unwanted autos. The company has a comprehensive, step-by-step system for quickly removing automobiles from an owner's property to promote green living through recycling while also giving auto owners an influx of money.

The company's services are offered nationwide, and includes scheduling the day, time and location of the pick-up. Owners do not need to be present when the vehicle is picked up unless receiving an in-person payment. The company transports the vehicle to a local recycling plant and completes these tasks often in less than 12 hours.

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# PLASTICS

## NERC adopts degradable additives policy

The Northeast Recycling Council, Inc. (NERC) has joined the national movement expressing concern about the use of degradable additives in plastic packaging by adopting a policy position in opposition to the use of these additives.

"The board determined that this practice currently has a negative impact on plastics recycling markets and the effectiveness of plastics recycling in general," president of the board Sarah Kite reported.

For a direct link to the full policy, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

## Non-bottle rigid plastics recycling soars

The American Chemistry Council (ACC) released a new report showing a significant increase in the collection and recycling of non-bottle rigid plastics in the United States. The report, prepared by Moore Recycling Associates, Inc., found that in 2010, nearly 820 million pounds of post-consumer rigid plastics were collected for recycling nationwide, an increase of 72 percent from 2009 and 154 percent since 2007.

The category "non-bottle rigid plastics" includes nondurable items (or packaging), such as dairy and deli tubs, lids, yogurt cups and similar food containers, and durable items, such as pallets, crates, carts, five gallon buckets and electronic housings. The collection and recycling of non-bottle rigid plastics is relatively new and calculated separately

from plastic bottles, which have been widely recycled in the United States for decades.

Of the 100 largest U.S. cities, the number of cities collecting rigid plastics in addition to plastic bottles doubled in just three years growing from 29 in 2008 to 59 in 2011. This means far more consumers have convenient access to recycle their rigid plastics. In addition, many communities are shifting to "single-stream collection," whereby residents are able to place all of their recyclables in the same



Recycling of rigid plastics, such as spray bottles, increased by 72 percent last year.

bin. Simplifying the process has been shown to greatly increase consumer participation in recycling programs.

The report also notes that robust growth in the recycling of rigid plastics in the commercial sector and strong pricing and demand for recycled plastic materials have helped to spur growth in this category. According to the report, among the five major types of recyclable materials, plastic scrap has the highest economic value per ton with the single exception of nonferrous metals.

The plastics collected in the "non-bottle rigid" category comprise primarily polypropylene (PP) and high density polyethylene (HDPE) as well as lesser amounts of other/mixed resins, polyethylene terephthalate (PET) and low density polyethylene (LDPE).

## Schick debuts eco-friendly razor

The new Schick® Xtreme3® Eco™ is the first disposable razor to use 100 percent recycled plastic in the production of its handle and 100 percent post-consumer paper in its packaging. Manufactured and shipped out of the company's 99.9 percent landfill-free facility in Milford, Connecticut, Schick estimates that they'll be saving over 103,000 lbs. of virgin plastic material and 15,500 lbs. of virgin paper from going into landfills each year by using recycled materials in the new razor.

The intrigue of Xtreme3 Eco extends beyond its environmental impact to the story of each razor handle's prior life. In order to have a more immediate impact

on the environment, Schick chose to use post-consumer recycled plastic instead of other biodegradable or recycled materials. Among the items retrieved and recreated in the Eco razor handle are common household items like hangers, buckets and pails. Overall, the recycling effort will save enough plastic each year to go up and down the Washington Monument more than 2,330 times.



## Plastic packaging market will reach \$196.42 billion in 2012

The Plastic Packaging Market 2012-2022 is Visiongain's new materials report. The global plastic packaging market is a steadily growing market which is expected to follow a modest growth rate in mature markets and a progressive above-average growth rate in emerging markets. Visiongain calculates that the plastic packaging market will reach \$196.42 billion in 2012.

Although the consumption of flexible plastic packaging is growing at a rapid pace, rigid plastic packaging holds the majority of the market.

A key trend that has been beneficial to growth has been a shift by the consumer to consumption at home. As such, plastic packaging applications are increasing in the food and beverage sectors.

The plastic packaging market stands immune to the recent economic downturn as technological advancements related to lightweight, convenient and sustainable packaging will retain its demand in the industry.

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## PLASTICS

# Postconsumer plastics group identifies non-bottle plastic recycling potential

The Association of Postconsumer Plastics Recyclers (APR) has recently completed a study that identifies key components of non-bottle rigid plastic available for recycling. The findings of the study, resulting from the most comprehensive bale sort survey known to date, will be used by APR to recommend guidelines designed to boost recovery of rigid non-bottle containers.

"This study was undertaken to determine the composition of the various types of mixed rigid plastic bales generated in North America," explained APR rigid plastic recycling director, Liz Bedard. "We aimed to provide a theoretical estimate of the volume and type of non-bottle rigid plastic available for recycling."

"APR understands that securing accurate estimates of the types, volume and destination of rigid plastic waste currently being recycled will strengthen and advance non-bottle rigid recycling," said APR president and CEO Steve Alexander.

Prior to the sort, APR identified seven distinct types of mixed resin bales being produced in North America that contain non-bottle rigid plastic. Those marketed bale types include: All Rigids Bale, Bottles & Containers Bale, Pre-picked Bale, Small Containers Bale, Tubs & Lids Bale, Bulky Rigids Bale, and Olefin Bale. Using these 7 bale types as a base, 29 bales were sorted

from 24 MRFs located on the West Coast, East, Midwest and Canada.

### Bale sort summary results:

**All Rigids Bale:** From MRFs that combine all bottles, containers and bulky plastics into a single bale. Bales contain all non-bottle containers, bulky rigid plastic and all bottles.

Sort results – By product category the highest component is bulky items, followed by bottles. By resin type the greatest component is PE, followed by PP, PET and HDPE.

**Bottles & Containers Bale:** From MRFs that mix plastic bottles and containers together, but do not have – or separately bale – bulky rigid plastics. Bales contain all bottles and containers, but no bulky rigid plastic.

Sort results – By product category, on average, approximately 75 percent of this bale type was bottles and 12 percent was trash. The highest resin type was PET followed by HDPE.

**Pre-picked Bale:** From MRFs that pull PET and HDPE bottles and bale all remaining rigid plastics. Bales contain all non-bottle containers, bulky rigid plastic and very few bottles.

Sort results – The highest product category was bulky items, followed by trash. The highest resin type was PE, followed by PP and HDPE.

**Small Containers Bale:** From MRFs that pull PET and HDPE bottles and bale all remaining plastic bottles

and containers together, but do not have – or separately bale – bulky rigid plastic. Bales contain: all plastic containers, very few bottles and no bulky rigid plastic.

Sort results – The highest product category was Flats/Thermoforms, followed by containers. The highest resin type was PP followed by PET.

**Tubs and Lids Bale:** From MRFs that service Tubs & Lids programs. Bales contain: PP, PE household and non-bottle containers including buckets.

Sort results – The highest product category was containers followed by buckets. The highest resin type was HDPE followed by PP.

**Bulky Rigids Bale:** From MRFs that pull large plastic items, usually at the front end. Bales contain: all large items predominantly PE and PP.

Sort results – The highest product category was bulky items followed by buckets. The highest resin type was PE followed by PP.

**Olefin Bale:** From MRFs that pull PET and HDPE bottles, then mixed olefin plastics. Bales contain: PE and PP bottles, PE and PP non-bottle containers, and PE and PP bulky rigid plastic.

Sort results – The highest product category was bulky items followed by nursery pots. The highest resin type was PP followed by PE.

# Plastics waste sorting facility opens in UK

Centriforce Products, the UK's largest independent plastics recycler, has invested over \$1.5 million in a new plastic recycling facility (PRF) at its 6-acre Liverpool production center.

The new facility officially opened in February by local MP Louise Ellman. Her visit recognized the private investment being made by Centriforce to guarantee a reliable and high-quality of plastic waste feedstock needed to manufacture its high-performance recycled plastic products.

The new facility is the culmination of an expansion program at Centriforce which has seen the company double its production capacity to more than 10,000 tons per annum in the past 4 years. Centriforce supplies recycled plastic sheets, boards and profiles including its leading Stokbord® brand to the agriculture, construction and retail sectors.

Centriforce has taken the decision to invest in its own sorting facilities for mixed plastic feedstock, recognizing the need to contribute to a more robust infrastructure for plastics recycling in the UK.

The new PRF will employ up to 10 people at the facility which will sort pre- and post consumer mixed plastic waste streams from a range of sources including the retail and construction industries, and prepare a quality feedstock for production.



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## PAPER

# Paper companies settle with Department of Justice and complete acquisition

International Paper Company and Temple-Inland Inc. have reached an agreement with the Antitrust Division of the U.S. Department of Justice (DOJ) with respect to International Paper's acquisition of Temple-Inland. As part of the agreement, the DOJ has entered into a consent decree with International Paper and Temple-Inland that allows the combination to proceed.

Under the terms of the consent decree filed in federal court in the District of Columbia, the combined company will undertake the post close divestiture of 970,000 tons of container-board mill capacity within four months, with the possibility of two 30-day extensions.

The company agreed to divest Temple-Inland's facilities in Ontario, California and New Johnsonville, Tennessee, and International Paper's facility in Hueneme, California. International Paper reaffirms that it expects to achieve at least \$300 million of synergies within twenty-four months of closing.

International Paper Company has completed its acquisition of Temple-Inland Inc. through the merger of its wholly owned subsidiary Metal Acquisition Inc. with and into Temple-Inland. Temple-Inland is now a wholly owned subsidiary of International Paper. Under the terms of the transaction, each issued and outstanding share of Temple-Inland common stock has been converted into the right to receive \$32 in cash, without interest thereon, and less any applicable withholding taxes. Including the assumption of approximately \$700 million in Temple-Inland net debt, the total transaction value is approximately \$4.5 billion.

As a result of the acquisition, Temple-Inland's common stock will cease trading on the New York Stock Exchange. International Paper chairman and CEO John Faraci said, "The combination of International Paper and Temple-Inland strengthens our North American packaging business and enhances our ability to generate cash flow while maintaining our strong balance sheet."

*A guy goes hunting and wants to hire a dog to retrieve the catch.*

*"I have just the dog for you, sir," said the gamekeeper. "He's called Salesman and he is brilliant."*

*Off they go and every time the hunter shoots a bird the dog runs off and brings the bird back just as he was*

*hired to do; a great success.*

*The following year, the same guy went back and asked for Salesman since he had been so good last year.*

*"Ah, I'm sorry, sir, but he won't work anymore. Someone had the bright idea of calling him Sales Manager - now he just sits on his arse and barks all day."*

# Catalyst Paper to restructure

Catalyst Paper Corporation has obtained an Initial Order from the Supreme Court of British Columbia under the Companies' Creditors Arrangement Act (CCAA). The terms and conditions of the restructuring plan have not yet been determined by the company.

The company also said that JP Morgan has agreed to provide debtor-in-possession (DIP) financing to Catalyst, which is expected to provide the company with up to approximately \$175 million of available capital during the CCAA proceedings. Advances under the DIP will be available after approval by the Court. The Initial Order provides the company with access to an amount the company believes is sufficient to fund operations until the Court hearing.

The company's operating revenue combined with the proposed DIP financing are expected to provide sufficient liquidity to meet ongoing obligations to employees and suppliers and ensure that normal operations continue during the restructuring process. Catalyst management will remain responsible for the day-to-day operations of the company.

The company intends to apply for recognition of the Interim Order under chapter 15 of title 11 of the US Code.

The Court granted protection under the CCAA for an initial period which expired on February 14, 2012 to be extended as required and approved by the Court. While the company and its subsidiaries are under CCAA protection, all proceedings on the part of their creditors are stayed.

The CCAA filing applies to Catalyst, Catalyst Paper General Partnership, Catalyst Pulp Operations Limited, Catalyst Pulp Sales Inc., Pacifica Poplars Ltd., Catalyst Pulp and Paper Sales Inc., Elk Falls Pulp and Paper Limited, Catalyst Paper Energy Holdings Inc., 0606890 B.C. Ltd., Catalyst Paper Recycling Inc., Catalyst Paper (Snowflake) Inc., Catalyst Paper Holdings Inc., Pacifica Papers U.S. Inc., Pacifica Poplars Inc., Pacifica Papers Sales Inc., Catalyst Paper (USA) Inc. and The Apache Railway Company.

# Used motor oil recycling facility built

Work has begun on a \$50 million state-of-the-art facility for the sustainable recycling of used motor oil to be built on a former asphalt terminal in Fairfield, south of the Baltimore Harbor Tunnel, Maryland.

The announcement was made by Vincent Glorioso, Baltimore-based vice president of FCC Environmental, one of the world's largest environmental services companies with an expertise in waste oil collection and processing and owner of the facility, one of the first to be built in the United States. The Baltimore facility is the first of several planned in the U.S. by the company.

We are working with Whitney, Bailey Cox & Magnani, LLC of Towson on the preliminary layout of the facility as well as conducting the topographical survey and soil borings. Additionally, Environmental Resources Management of Annapolis is assisting us with the permitting process," said Glorioso.

"Construction is scheduled to begin this fall following the issuance of the environmental and construction permits," Glorioso said. Operations are anticipated to begin in mid-2013.

At the Baltimore plant, FCC Environmental will recycle 40 million gallons of used motor oil annually back into "base oils" that will be transported offsite via truck and rail to be processed into passenger car motor oils, heavy duty diesel engine oils, transmission fluids, and other lubricating products that meet or exceed industry standards and specifications.

While more than 1.2 billion gallons of used motor oil are collected in the U.S. every year, approximately 1 billion gallons are either burned for fuel in industrial furnaces or disposed of illegally. As a result, 1 billion gallons of virgin base oil must be produced at refineries each year to meet consumer demand, with most of the oil coming from overseas.

The recycling center, which is expected to create up to 100 jobs during its 12-month construction phase, will provide 30 permanent jobs.

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# INTERNATIONAL

## City hires Covanta Energy to generate energy from waste

The Royal Borough of Windsor and Maidenhead has awarded a contract to treat all residual and organic waste generated in the borough to Covanta Energy.

The task of the preferred bidder will be to turn approximately 30,000 tons of non-recyclable municipal waste into a fuel to generate "largely renewable" electricity.

Covanta has a contract, according to which 15,000 tons of food and garden waste collected in the borough each year will be treated by its organic waste partner, Agrivert Energy and fertilizer will be produced from the waste.

The company said that the award of this contract is part of its long-term plan to develop a number of waste-to-energy facilities across the UK.

According to the local cabinet the waste management solution will help drive up recycling rates, provide value for money for population and will generate significant levels of sustainable energy, by diverting waste away from landfill and using it as a fuel to generate renewable electricity.

The plan is in four years' time to zero landfill tax when waste that can't be recycled is used to generate energy.

*The difference between Republicans and Democrats:*

*A Republican and a Democrat were walking down the street when they came to a homeless person.*

*The republican gave the homeless person his business card and told him come to his business for a job. He then took twenty dollars out of his pocket and gave*

*it to the homeless person.*

*The Democrat was very impressed, and when they came to another homeless person, he decided to help. He walked over to the homeless person and gave him directions to the welfare office. He then reached into the Republicans' pocket and gave the homeless man fifty dollars.*

## UK boosts plastics recycling

Waste and Resources Action Programme (WRAP) announced that the UK's capability to recycle plastic packaging has been given a further boost with funding provided to recycle an additional 16,500 tons of rigid plastic packaging at ECO Plastics' facility in Lincolnshire.

The \$1.8 million loan from WRAP will enable ECO Plastics to extend its existing bottle sorting and processing facility, to now recycle a total of 165,000 tons of plastics annually. The investment complements the joint venture that the business formed with Coca-Cola Enterprises last year and will mean that its Hemswell facility is better able to process rigid plastic packaging such as tubs, pots and trays, as well as plastic bottles.

Following WRAP's funding of the Biffa Polymers plant in Redcar in 2010, this is another important step towards building the reprocessing infrastructure that the UK needs to effectively recycle more plastic resources.

It is important that rigid plastic packaging is effectively recycled, and if not carried out properly, rigid plastics can con-

taminate the highly valuable plastic bottle waste stream. As the UK's capacity to process non-bottle plastics packaging grows, it will ultimately become viable for local authorities to routinely collect non-bottle plastics packaging from households at curbside.

Over the next three to five years, WRAP aims to support higher recycling rates for all plastics packaging, but in a way that allows quality to be maintained so that the best environmental and economic outcomes can also be achieved. WRAP aims to increase the UK's capacity to recycle its rigid plastic packaging by 110,000 tons per year through the Mixed Plastics Loan Fund.

The facility, based in North Lincolnshire, will employ an additional 12 local people, creating sustainable jobs in addition to further developing the UK's green economy with home grown processing and manufacturing.

For additional information, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).



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## BUSINESS BRIEFS

### Regency Technologies recycles CRT glass

■ Regency Technologies announced a new operation in conjunction with Dlubak Glass Company, America's largest recycler of television and PC monitor CRT (cathode ray tube) glass.

Regency Technologies' new location in Upper Sandusky, Ohio, adjacent to Dlubak Glass, allows for the complete breakdown, dismantling, and recycling of any device that contains CRT glass safely and responsibly without polluting the environment. Regency Technologies' dismantling process takes televisions and PC monitors and breaks them down to separate recyclable materials including CRT glass, plastic, wire, metals and more.

Dlubak Glass receives the separated CRT glass and recycles it into environmentally safe furnace ready cullet which is reused in many applications including road surface paving material, building construction and aggregate products.

### Nelson joins Atlas Copco Construction Equipment

■ Stephen Nelson has been appointed business development manager at Atlas Copco Construction Equipment, Commerce City, Colorado. In his new role Nelson will report directly to Erik Sparby, president and general manager of Atlas Copco Construction Equipment.

Nelson has more than 20 years of sales and management experience working in the construction equipment and rental industry.

### Mary Gade joins board of Liquid Environmental

■ Liquid Environmental Solutions has elected Mary Gade to its board of directors, succeeding Robert Nugent, who served on the board since 2004.

Gade served as regional administrator for Region 5 of the Environmental Protection Agency (EPA) from 2006 to 2008, overseeing federal environmental programs in the Great Lakes states of Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin. She had previously served as the director of the Illinois EPA from 1991 to 1999.

Gade is an environmental attorney with more than 20 years of experience in environmental regulation and enforcement, as well as extensive private sector experience. From 1999 to 2006, she was a partner in the national environmental practice group of Sonnenschein, Nath & Rosenthal.

Earlier in her career, Gade served in various management roles at the EPA, including deputy assistant administrator of the Office of Solid Waste and Emergency Response.

*The sheriff of a small town was also the town's veterinarian. One night the phone rang, and his wife answered.*

*An agitated voice inquired, "Is your husband there?"*

*"Do you require his services as a sheriff or as a vet?" the wife asked.*

*"Both!" was the reply. "We can't get our dog's mouth open, and there's a burglar in it!"*

### City Carton Recycling appoints new president

■ Bill Lundberg, Billings, Montana, is the newly appointed president for City Carton Recycling, headquartered in Iowa City, Iowa. Lundberg is the first non-family member to serve as president of the company. Andy Ockenfels, former president, will now serve as the City Carton Recycling chief executive officer.

As president, Lundberg oversees all operations of City Carton Recycling and Document Destruction and Recycling Services. He uses Lean Enterprise, not restricted to Lean Manufacturing, and Six Sigma as preferred methods to identify and implement process improvements resulting in increased productivity and reduced errors. Lundberg's office will be located at the company's Iowa City headquarters.

Lundberg spent 27 years with Cargill, Inc. in a variety of sales and operation positions with their steel subsidiary, North Star Steel Company. For the past seven years, Lundberg was president and COO of Roscoe Steel and Culvert Company, Billings, Montana, where he oversaw three operational units – Corrugated Metal Pipe, Structural Steel, and Bridge. While in Montana, Lundberg also served on the Big Sky Economic Development board of directors.

### Alcoa and WM Recycle America join coalition

■ The Coalition for American Electronics Recycling (CAER) revealed that Alcoa and Waste Management Recycle America have joined the alliance. CAER represents American companies that believe electronics recycling should be performed securely and sustainably for the benefit of the American economy.

As members of the Coalition, Waste Management Recycle America and Alcoa endorse passage of the Responsible Electronics Recycling Act, introduced last June. This legislation prohibits United States export of certain electronic waste to developing countries that lack safeguards to protect the environment and workers, and supports the expansion of the domestic recycling industry.

With the addition of Alcoa and Waste Management, CAER now includes 48 companies with facilities in 32 states and the District of Columbia.

### Mechel OAO makes management changes

■ Mechel OAO, a Russian mining and metals company, reported that Mukhamed Tsikanov left the post of Mechel OAO's senior vice-president for economics and management to accept another appointment.

His responsibilities are transferred to senior vice-president for economics and management, Oleg Korzhov, previously senior vice-president for business planning and analysis.

### Sterling Blower Company achieves ISO certification

■ Sterling Blower Company has received registration to ISO 9001. Certification under the BSI Registration Program was awarded in recognition of Sterling Blower's compliance with quality process standards and effective business management systems for all its operations – from engineering, product design and manufacturing, to delivery and customer service.

ISO 9001:2008 reflects an organization's solid foundation for continuous improvement through data use and analysis. This international standard places a strong emphasis on customer satisfaction, management responsibility, continual improvement and organizational performance measurement.

### Pendergrass promoted to service director at KPI-JCI

■ Johnson Crushers International, Inc. (KPI-JCI) has promoted Ian Pendergrass to service director.

Pendergrass, who previously served as the company's service manager, will continue in his role for customer service efforts, in-shop service and rebuild program, as a member of JCI's safety committee and warranty committee.

## Events Calendar

### March 11th-14th

**The 25th Southeast Recycling Conference & Trade Show.** Hilton Sandestin Beach Golf Resort & Spa, Destin, Florida. 800-441-7949 • [www.southeastrecycling.com](http://www.southeastrecycling.com)

### March 19th-22nd

**35th Annual Landfill Gas Symposium.** Gaylord Palms, Orlando, Florida. 800-926-3976 • [www.lfg.swana.org](http://www.lfg.swana.org)

### March 25th-27th

**C&D World 2012.** Nashville Convention Center, Nashville, Tennessee. 608-538-3552 • [www.cdworldmrg.com](http://www.cdworldmrg.com)

### April 1st-4th

**Aluminum Association Spring Meeting.** The Meritage Resort & Spa, Napa, California. 703-358-2967 • [www.aluminum.org](http://www.aluminum.org)

### April 1st-5th

**NPE 2012: The International Plastics Showcase.** Orange County Convention Center, Orlando, Florida. 866-229-2386 • [www.npe.org](http://www.npe.org)

### April 15th-19th

**2012 ISRI Convention and Exposition.** Mandalay Bay, Las Vegas, Nevada. 202-662-8500 • [www.isriconvention.org](http://www.isriconvention.org)

### April 17th

**NERC Spring Workshop, Environmentally Sound Mattress Management.** Hotel Northampton, Northampton, Massachusetts. 802-254-3636 • [www.nerc.org](http://www.nerc.org)

### April 25th-27th

**10th Annual CARE Conference.** Loews Coronado Bay, Coronado, California. 706-428-2127 • [www.carpetrecovery.org](http://www.carpetrecovery.org)

### April 30th-May 3rd

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# BUSINESS BRIEFS

## Trademark Metals acquires Gulf Coast Metals

■ Trademark Metals Recycling (TMR), wholly owned by The David J. Joseph Company, a Cincinnati-based subsidiary of Nucor Corporation, purchased the assets and business of Gulf Coast Metals, headquartered in Tampa, Florida.

Established in 1981, Gulf Coast Metals operates four facilities, including Florida's largest secondary aluminum melting operation. All three locations provide full service metal recycling, buying all grades of ferrous and nonferrous scrap metal.

The secondary aluminum melting operation will enable TMR to convert aluminum scrap into value-added products. This process consumes aluminum scrap such as used beverage cans, old sheet, cast, painted siding and other types of aluminum scrap. The finished products consist of spec aluminum alloys in the form of sows, ingots and cones supplied primarily to the aluminum and steel industries.

## Enerkem appoints new board member

■ Enerkem Inc., a waste-to-biofuels and chemicals company, announced that Carl Rush, senior vice president of organic growth for Waste Management, Inc., joined its board of directors.

Rush joined Waste Management in 2001. As senior vice president of organic growth, he is responsible for finding growth opportunities that are synergistic with the company's objective of maximizing value from waste, including converting them into biofuels, renewable chemicals and energy. Enerkem has established a strategic relationship with Waste Management since the company's initial investment in Enerkem in 2010.

Carl Rush replaces Tim Cesarek as Waste Management's representative on Enerkem's board of directors.

## Paladin Construction Group appoints new VP

■ Paladin Construction Group recently appointed John Thomas to the position of vice president, marketing and business development. He will be responsible for all aspects and functions of marketing and business development for Paladin and its Bradco, CP, Custom-Works, FFC, Harley, JRB, McMillen and Sweepster brand companies on a global basis. Thomas replaces Doug Amerman, who has been promoted to director of Sweepster Aviation.

Thomas brings experience in the construction attachments business. He most recently served as vice president of the Blades and Attachments Business Unit at ESCO Corporation. He has a total of 14 years of experience with ESCO in various capacities.

## APRA Europe appoints Bartel as new chairman

■ Peter Bartel was appointed chairman of the Automotive Parts Remanufacturers Association's European Division at a board meeting in Frankfurt, Germany.

Bartel has been working in the remanufacturing industry for approximately two decades. He has a degree in mechanical engineering from the Berufsschule Mannheim in Germany and works as senior expert for Bosch Automotive Aftermarket. Bartel served since 2009 as a member of the board of APRA Europe.

## East Trailer authorizes new dealer for six states

■ Worldwide Equipment, Inc. a truck equipment company with 15 full service dealerships in 6 states, has been named an authorized dealer for East Manufacturing. Worldwide Equipment will offer East's full line of dump, flatbed and refuse trailers at thirteen of their dealerships located in Kentucky, Tennessee, West Virginia and Virginia.

## Chadwick Engineering joins Aluminum Association

■ The Aluminum Association added a new member, Chadwick Engineering Ltd. of Kingston, Ontario. The company joined as an associate member which are a critical part of the North American aluminum industry providing direct services to firms that produce or recycle aluminum.

Jason Chadwick, vice president of Chadwick Engineering, will serve as the official representative to the Aluminum Association.

## TMS promotes Hank Wilson to senior vice president

■ TMS International Corp., the parent company of Tube City IMS Corporation, promoted Hank Wilson to senior vice president of North American Trading and Business Development for its Raw Material and Optimization Group.

## Nucor declares 156th consecutive cash dividend

■ The board of directors of Nucor Corporation declared the regular quarterly cash dividend of \$0.365 per share on Nucor's common stock. This cash dividend is payable on May 11, 2012 to stockholders of record on March 30, 2012, and is Nucor's 156th consecutive quarterly cash dividend.

## SC Environmental opens new facility in Illinois

■ SC Environmental, LLC recently purchased and renovated a 10,000 sq. ft. office, warehouse and service facility in Addison, Illinois. In addition to providing on-site service for recycling equipment customers, SC Environmental is now able to refurbish and sell used equipment. The service department is managed by Larry Epting, who has over 23 years field experience with recycling equipment and system repairs, PM Programs and PLC Diagnostics and Programming.

## Big Truck's Mecchi elected to foundation board

■ The board of directors of the Environmental Research and Education Foundation (EREF) announced the election of its newest member, Robert J. Mecchi II, vice president of business development, Big Truck Rental.

Robert J. Mecchi II has been the vice president of business development for Big Truck Rental, LLC since September 2010. He is the current chairman of the WASTEC board of governors and has chaired the association's Statistics Program since 2005.

In 2007 Robert was honored as WASTEC's Member of the Year. He is also the Member at Large to become the co-chair of the Environmental Industry Association's Future Industry Leaders of America in 2013. Additionally, Robert has served on EREF's Auction Committee since 2008.

*When sisters stand shoulder to shoulder, who stands a chance against us?*

—Pam Brown

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## IF YOU NEED A CARPET STEWARDSHIP PLAN, YOU'RE NOT ALONE.

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The Southeast Berrien County Land-fill Authority (the "Authority") is seeking proposals for technical consulting services.

The Southeast Berrien County Land-fill Authority located in Niles, Michigan 49120 wishes to explore feasible options for the beneficial use, reuse, and recycling of MSW and waste byproducts. The Authority wishes to engage a well qualified consultant or consulting firm to assist the Authority in identifying and evaluating these options.

For information on how to obtain the Official Request for Proposal, please feel free to contact me at 269-695-2500, extension 212, or by e-mail [sfuller@qtm.net](mailto:sfuller@qtm.net). Inquires must be no later than March 23rd 2012.

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2001 MHL 320 rebuilt (rubber), hydraulic cab, gen-set, and grapple.  
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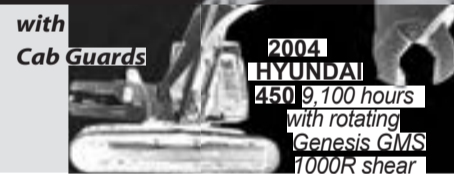
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## Asphalt recycling pulls material from roads and roofs

by MARK HENRICKS

mhenricks@americanrecycler.com

Asphalt is one of America's most recycled materials, but the sticky black product admired for its weather resistance, its ability to bind together other materials, to pave roads and cover roofs also faces challenges in meeting its full recycling potential.

The brightest success in asphalt recycling is found in paving. Margaret Cervarich, vice president for communications and public affairs of the National Asphalt Pavement Association, a Lanham, Maryland trade group, said 99 percent of the asphalt covering the nation's roads is recycled when it is removed for resurfacing or other purposes. "In 2010 we reclaimed 72.9 million tons of asphalt pavement," Cervarich said.

Asphalt used for paving is easy to recycle, for several reasons. One is that it is mostly made up of rocks in the form of aggregate bound together by the sticky asphalt. Not only are the rocks highly durable and readily re-used for the same purposes, but asphalt itself can be recycled indefinitely, Cervarich said.

Perhaps most important is that the paving and recycling is done as part of the same process, often by the same company, and it uses processes that are

time-tested and uncomplicated. "They just mill it up off the road," Cervarich said. "It's very simple and straightforward. It's a technology we've been using since the seventies, and it's done by asphalt contractors."

Post-consumer products, on the other hand, are harder to recycle because consumers have to be recruited to gather and place materials into the recycling stream. Some of the same difficulties apply when businesses recycling materials aren't the same ones collecting the recyclables. "The people who demolish a house aren't necessarily going to take those same elements and put them into another house," Cervarich said. "With asphalt pavement it's very simple. You use a milling machine to chew it up off the pavement, take it back to the asphalt plant, grade it, sort it and store it until you're ready to use it. The same people doing the reclaiming are also doing the construction and reuse."

Recycling asphalt removed from road surfaces and then re-applying it saves transportation costs, as well as the costs of mining new asphalt from deposits or extracting it from petroleum. Recycling asphalt is more economical for paving companies than obtaining and employing virgin materials, so they are financially motivated to recycle all of it they can get.



Unlike asphalt, which is frequently recycled on-site, a large percentage of waste shingles are not recycled.

In the process, recyclers divert many tons of material from landfills, while conserving energy that would be used for transportation and refining virgin asphalt. "We're saving natural resources instead of filling in landfills," Cervarich said. "It's an extremely efficient thing to do."

One recycling challenge is getting states' road building agencies to agree to higher percentages of recycled materials in the asphalt mix applied to roads. Some states limit the amount of recycled asphalt that can be used in public roads below 50 percent, although private road builders are less demanding. Recycled material has been suspected of causing cracking when added to mixes in high concentrations. But recent research indicates recycled material can be used without affecting cracking, Cervarich said.

"We think that reclaimed asphalt is a great resource of America," Cervarich said. "We have 2 million miles of paved roads and about 94 percent of them have an asphalt surface. All of that pavement on the road is a resource we can mine and reuse."

The other major use of asphalt is for roofing, in the form of asphalt shingles used in homes and other buildings and asphalt coverings for flat roofs. Here the situation is different. A large portion and perhaps the majority of asphalt shingles, which are the primary source of roofing

asphalt entering the materials stream, are not recycled.

That's not to say roofing companies don't recycle any. "It's hard to tell the total percentage, but the number I have is that if you don't recycle asphalt shingles, there would be 11 million tons per year that would go into the landfills," said John Ferraro, general manager of Asphalt Roofing Manufacturing Association, a Washington, D.C.-based trade group.

Just as several factors help to make pavement recycling relatively easy, convenient and practical, a constellation of issues prevent shingles from being more readily recycled. "One factor that would help increase recycling is the presence of an end market for the recycled material," said Ferraro. "Right now the primary use for asphalt is turning it into pavement for roads. It goes into a hot mix and is used for pavement. There are a couple of other uses for it but that's by far the primary use."

With lower state road building budgets, demand for recycled asphalt shingles for paving has been slow. "They're not paving as much as they would in a good economy," Ferraro said. "As that picks up a little more the demand side will start to pick up as well."

Another problem is that sometimes asbestos is mixed in the material, so that

See ASPHALT, Page 3



Old asphalt is milled off of roads, and immediately recycled on-site into material for the replacement roadway. The challenge is convincing states to allow mixes with a higher percentage of recycled content.

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## A Letter from the Editor

Readers,

We've used it day in and day out for decades. It weatherproofs our homes and allows us to travel in relative comfort from Point A to Point B. And despite accomplishing these important goals, no one gives it a second thought as they employ it in their travels, or thinks to be grateful for it as they sit secure from the storm raging outside.

The wonder material that I'm referring to is a petroleum product called asphalt. And it has a number of other important properties as well. Perhaps the most impressive aspect of asphalt, however, is the fact that it is infinitely recyclable. In fact, it is so reusable, that it has become standard operating procedure for paving companies to mill up the old road material, and grind it down on-site for inclusion in new material mix.

While some states limit the percentage of recycled asphalt to new asphalt in new road material due to durability concerns, recent studies have concluded that the ratio of recycled content to virgin content has no bearing on the longevity and resistance to cracking of new roadways. Now, many states are reevaluating the permissible mix percentage in an effort to encourage responsible disposal of old road materials.

While pavement is frequently recycled, one large source of recyclable asphalt isn't receiving the attention that it deserves. Asphalt shingles are one of the most prevalent home weatherproofers in the U.S., and yet this resource is frequently disposed of in landfills instead of being responsibly recycled.

For a more in-depth examination of the current state of asphalt recycling and reuse, read this month's Focus cover article by author Mark Henricks. There, he discusses the current and future states of asphalt recycling and reuse, and what can be done to help increase the amount of used shingles that are recycled.

Thanks for reading, and as always, feel free to write, call or email me with your questions, comments and concerns.

Until next month,



Dave Fournier  
Focus Section Editor  
david@americanrecycler.com

# LivingHomes' C6 is a LEED Platinum level production home for less

LivingHomes®, a developer of sustainably-designed, prefabricated homes, announced the launch and national availability of the new LivingHome C6. The C6 is the first LivingHome that is affordably priced and comfortably sized for a small family or couple.

The C6 was designed as part of a new partnership with nonprofit Make It Right to build 150 cradle-to-cradle inspired LEED Platinum homes in New Orleans' Lower Ninth Ward – the neighborhood hardest hit by Hurricane Katrina. A portion of the proceeds from the sale of each C6 will help support the efforts of Make It Right.

The C6, built by Cavco, is available in most states for \$179,000 (\$145 per sq. ft.). The C6 can be fully constructed in less than two months and installed on-site in one day.

### Design Features

The C6 was designed by LivingHomes staff, and was inspired by the remarkable modern homes built by developer Joe Eichler throughout California in the 50s and 60s. Like many Eichler Homes, the C6 is organized

around a courtyard that is accessible through a variety of openings and features an open floor plan that is ideal for outdoor/indoor lifestyles. Its size, 1,232 sq. ft., is well below the national average of 2,380 sq. ft. for new homes.

The three bedroom, two bathroom LivingHome includes:

- Cork floors, wood ceiling, natural wood millwork and wood siding.
- Multiple sliding glass doors accessing the backyard and courtyard.
- Floor-to-ceiling glass, clerestory windows, light tubes, and transom windows.
- Ample storage, particularly in the kitchen.
- Full feature lighting control system, accessible from an iPhone.

### Environmental Features

The C6 is the first Energy Star® certified production home with a LEED Platinum level environmental program and cradle-to-cradle inspired products. It is also the first LivingHome to achieve most of LivingHomes' Z6 Environmental Goals: Zero Energy, Zero Water, Zero



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Airman Jones was assigned to the induction center where he was to advise new recruits about their government benefits, especially their GI insurance. It wasn't long before Captain Smith noticed that Airman Jones had almost a 100 percent record for insurance sales, which had never happened before.

Rather than ask, the Captain stood in the back of the room and listened to Jones's sales pitch. Jones explained the basics of the GI Insurance to the new recruits, and then said, "If you have GI Insurance and go into battle and are killed, the government has to pay \$200,000 to your beneficiaries. If you don't have GI insurance, and you go into battle and get killed, the government has to pay only a maximum of \$6,000."

"Now," he concluded, "Who do you think they are going to send into battle first?"

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# Efficiency, risk management put to test as engineering and construction industry moves to meet infrastructure demand

Many major urban areas across the globe are straining to adequately support rapidly growing populations prompting a need for infrastructure investment. This development is pressuring the engineering and construction industry to step up to meet the demand, putting their efficiency and risk management processes to the test, according to KPMG International's 2012 Global Construction Survey.

The Great Global Infrastructure Opportunity surveyed 161 engineering and construction companies around the world with revenues ranging from \$250 million to more than \$5 billion.

"Global industry players will need to scale up to meet demand and navigate a tough political, commercial, regulatory and governance environment – which will significantly test their risk management capabilities," said Geno Armstrong, international sector leader of KPMG's Engineering and Construction practice.

## Energy and Transportation Sectors Offer Greatest Opportunity

Slightly more than 40 percent of global respondents anticipate that the energy sector offers the greatest opportunity for revenue over the next 12 months. Second, behind energy, were roads/bridges tied with residential at 24 percent, followed by rail and mining.

Nearly 60 percent of respondents from the Americas believe the energy sector will have the biggest impact on revenues. Respondents from Asia Pacific (35 percent) and Europe, Middle East and Africa (EMEA) (nearly 40 percent) also see energy as their biggest revenue producers.

## Economic Uncertainty and Skills Shortage Are Biggest Concerns

"The demand for firms and individuals with sector-specific engineering and construction skills will rise as power and other energy-related projects continue to proliferate around the globe," said Armstrong. "This should prove to be a major source of income for the industry as a whole."

While 49 percent of global respondents expect their backlogs will grow from 5 percent to more than 15 percent in the next year, 71 percent of respondents cite economic uncertainty as their biggest ongoing concern, followed by a skills shortage (31 percent) and government deficits (30 percent). In the Americas, economic uncertainty (70 percent) was the biggest ongoing concern, followed by government deficits (52 percent).

Sixty-two percent globally said that they expect margins on current bids to remain unchanged from their current backlog. Fifty-seven percent said their revenues in 2011 increased from 2010, with the Asia Pacific region seeing the greatest growth (72 percent), followed by EMEA (53 percent) and the Americas (41 percent).

## Creating Efficiencies to Manage Complexity and Meet Demand

To mitigate risk, manage project complexity and effectively meet the anticipated increase in demand, companies are seeking solutions to address efficiencies in their procurement/supply chain. Nearly 60 percent of respondents globally said improvement in this area will improve profits and enhance cash

flows. Almost 40 percent of respondents said the primary cause of inefficiencies in their supply chains were disparate processes and systems.

Cost-cutting still remains a challenge for companies as well, with 61 percent of respondents globally and 78 percent in the Americas seeing organizational culture as the culprit for implementing the cuts. A surprising 17 percent of respondents globally said that cost reduction was not a priority at all.

Survey respondents acknowledged that IT optimization is critical to improving efficiencies, yet 50 percent said that overhauling IT systems takes too long and costs too much. Thirty percent said that there are not enough available ERP packages tailored to the construction sector.

"Those who previously funded major IT enhancements are now reaping the rewards of centralization and transparency across their supply chains," said Armstrong.

## Risk Management Still a Major Concern

With projects expected to become more complex, maintaining margins and mitigating risk are major concerns for most respondents. Globally, 45 percent of respondents said that quantifying risks is the chief concern; in the Americas, 52 percent of respondents said that identifying risk is the main focus and nearly 50 percent said they want to better understand the link between strategy and risk.

"Despite considerable investment, risk management still comes up a bit short," Armstrong said. "Our survey revealed that nearly 54 percent of respon-

dents said they failed to identify upfront issues that later caused margin erosion and only 36 percent believe that their project review processes are very efficient."

## Barriers to Investment

Respondents said the primary barriers to public-private partnerships in infrastructure investment are a combination of a lack of policies, leadership and investment by the public sector as well as a lack of initiative in the private sector.

Forty-seven percent of respondents believe public policies will have a positive impact on investment, with Asia Pacific being the most positive (49 percent) followed by EMEA (47 percent) and the Americas (41 percent).

Moreover, respondents showed concern about the public sector's ability to drive infrastructure investment with 80 percent of respondents globally indicating that lack of leadership will hamper investment.

And, while respondents globally anticipate that energy (34 percent) and transportation (33 percent) will likely attract the most private sector investment for their companies, two-thirds see a lack of private sector initiative as another barrier to investment. Fifty-six percent of the Americas respondents see transportation as having the biggest appeal for investment.

"With austerity policies in many countries constraining the scope for public sector spending, it is vital to create an environment that encourages private sector investment," Armstrong said.

## Asphalt

■Continued from Page 1

recyclers have to remove the hazardous substance. Other than that, most of the technology for recycling shingles is straightforward. "It's still just the basic grinder that separates the asphalt from the rest of the construction debris," Ferraro said. "It gets ground up into various stages of fine material. Certain hot mixes have to have different formulas of asphalt and everything else that go into it. But it's just your typical grinder that's used now."

Asphalt is a regulated material already, and recycling it poses no

additional problems for companies used to working with it. One thing Ferraro would like to see is a national standard for guidelines for recycling, however, because now each state regulates it differently.

To improve recycling rates, Ferraro said one focus is an education campaign to teach businesses that remove roofs that the shingles can be recycled rather than being dumped in landfills. "The future looks very promising," he said. It's certainly a growing piece and as technology gets better, the product will become better quality."



While some suspected that high percentages of recycled asphalt increased the likelihood of cracking in new roads, subsequent studies have shown that that is simply untrue.

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# EQUIPMENT SPOTLIGHT

## Demolition Attachments

by MARY M. COX

maryc@americanrecycler.com

Chris Nichols is the general manager at AIM Attachments, a company that manufactures attachments that can be used in the construction and demolition industry. Grapples made by the firm are suitable for any number of demolition, recycling, excavation or salvage operations. According to Nichols, the AIM HD grapples are available in several sizes for excavators in classes ranging from 25,000 to 100,000 lbs.

Designs offer both 2-over-3 tine and wider, 3-over-4 tine configurations. AIM grapples feature AR400 steel tines, a reinforced solid box body design, and a mounting bracket with three working positions. The design features a four-bolt flanged hinge that maintains the linkage of the grapple for easier and more efficient installation times. A configuration that can be set up to work with machines that have quick couplers installed is also available.



AIM Attachments

Nichols explained, "Over the last several years, excavator usage has surpassed wheel loader usage in many jobsite applications and accordingly, excavator grapple usage has increased. These grapples are used widely by demolition contractors and C&D recyclers. They increase the ability to pick and choose the material that is being handled, and are especially useful in controlled demolition applications. Contractors strive to get as much out

of their attachments as possible. While demolition grapples are specifically designed to be stronger so that they can handle primary and secondary demolition tasks, they are also capable of many lighter jobs as well, making them a versatile tool."

According to Allied Construction Products, LLC (ACP) president and CEO Ed Turner, the focus at ACP is finding solutions for client problems. ACP is an international manufacturer of hydraulically actuated construction tools and attachments.

"Our products save time, money and energy, and so deliver on your investment. We offer the broadest line of breakers in the market and other construction products sold under the Allied and Rammer brand names," Turner said. He believes that ACP is better prepared to meet the changing market challenges than it has ever been. "In order to achieve our goals," said Turner, "we must think globally and act locally. We do have great products but more importantly, we have great people." Allied has a strong dealer network, efficient customer service and all orders are shipped the same day. "When customers call, they need their order filled quickly and accurately. Our job is to meet or exceed their needs at all times," Turner stated.

ACP's AMS Series mobile shears are specifically designed and built for scrap processing, industrial contracting and demolition applications. Using maximum tons of cutting force and available in four models, the AMS Series improves scrap and demolition production with increased cutting and piercing ability. Turner stressed that durability and reliability are built into every AMS Series model using the highest quality materials while undergoing the toughest factory testing for quality control.

ACP also offers three new, state-of-the-art Rammer small range breakers – the BR555, BR777 and BR999. Designed without tie rods and incorporating a unique Constant Blow Energy (CBE) plus operating system, Turner said that all three of the breakers are powerful, reliable and easy to maintain, regardless of the application. They are a long-term solution to any



NPK Construction Equipment, Inc.

breaking application for carriers between 7,500 and 27,600 lbs.

NPK Construction Equipment serves the needs of the construction, demolition, quarrying and mining industries. "We currently manufacture extensive lines of hydraulic breakers, material processors and primary/secondary crushers to serve the C&D recycling market, as well as a complete line of hydraulic and mounting kits to fit your carrier," stated Steve Kubish, marketing support.

NPK offers 17 models of hydraulic breakers, from the GH06 with an impact class of 150 ft. lbs. all the way up to the gigantic GH50 at 20,000 ft. lbs. These machines fit carriers from 1.2 up to 120+ tons and are fitted with shock absorbing mounting brackets to absorb shock, recoil and impulse vibration, and an idle blow sensor to virtually eliminate blank firing for long hammer life.

The company's material processors are available in 4 models; the M-20 with a crushing/piercing force of 77-91 tons; the M-28 with 115-133 tons; the M-35 with 125-127 tons; and, the M-38 with 143-170 ton crushing/piercing force. All models include 360° free power rotation, fit carriers from 20 to 55 tons and 4 interchangeable jaw sets are available – the S Jaw, ideal for cracking, the G Jaw for pulverizing, the K Jaw for shearing

See SPOTLIGHT, Page 5

### Manufacturer List

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## Internap data center LEED Certified

Internap Network Services Corporation, a provider of IT Infrastructure services, revealed that its Santa Clara data center has been awarded LEED certification by the U.S. Green Building Council (USGBC). LEED is one of the primary rating systems for the design, construction and operation of energy-efficient buildings.

In addition to receiving LEED certification, Internap's Santa Clara data center became the first commercial data center in the U.S. to achieve the Green Building Initiative's Green Globe® certification in June 2011. The SOC2-compliant data center offers Internap's full platform of IT Infrastructure services – from public and private cloud-managed hosting and colocation to a global Content Delivery Network and route-optimized IP transit. The facility utilizes cutting-edge green practices throughout and incorporates flexible, high-density power configurations of up to 12kW per rack, enabling customers to adjust power consumption on demand without requiring more space.

"Data centers have emerged as a sector with incredible green building potential," said Rick Fedrizzi, president and CEO of the USGBC.

Specific highlights that contributed to Internap's LEED certification include:

- Use of reclaimed water: The first commercial data center operator in California to use reclaimed rather than potable water to help cool the building, Internap saves 76,300 gallons per day and 27,849,500 gallons per year, the equivalent of 46.5 Olympic-sized

See INTERNAP LEED, Page 6

## Waste Management to establish dedicated C&D material processing facility in Toronto

Waste Management (WM) will establish a facility in Toronto dedicated to processing waste materials from building construction and demolition (C&D) sites.

Scheduled to be in operation this Fall, the plant which was acquired in late 2011 will undergo extensive upgrades. The total investment is expected to be \$16 million, and 20 new full-time jobs will be created at the facility.

The semi-automated single stream recycling plant will process an estimated 87,000 tons of C&D material in its first full year. As the facility will be equipped to sort waste materials, contractors and developers will no longer have to separate at source, and this will result in increased recovery rates.

Located south of the QEW at New Toronto Street, the facility will serve western Toronto and the southern

parts of Peel Region. Brad Muter, WM's vice president for eastern Canada, noted that the site was selected "because continued strong construction activity and population growth are anticipated in Toronto."

The C&D facility will support local and provincial government efforts to divert these materials from landfill.

## Spotlight

■Continued from Page 4

and the C Jaw combo-cutter which serves a variety of demolition and recycling applications. They are the most versatile attachments of their kind in the industry, Kubish said.

The machines are also equipped with NPK's exclusive Hydraulic Intensifier System, which boosts power by amplifying hydraulic cylinder pressure when the jaws meet resistance.

NPK's material processors are an efficient solution for concrete, steel and rebar processing, building and bridge demolition and recycling. When processing potentially hazardous materials, the product eliminates workers' exposure to toxic emissions.



Allied Construction Products

Three primary/secondary crusher models offer full 360° free power rotation coupled with NPK's exclusive Hydraulic Intensifier System. The U-21J with 73 tons crushing force, the U-31J with 130 tons and the U-45JR with 142 tons crushing force fit carriers in the range of 21 to 55 tons. The crushers have lower profile teeth on the sides, a high profile center tooth, and a high strength steel center cutter that slices through rebar and light steel structures.

"Our comprehensive and competent dealer network enables us to maintain a high level of customer satisfaction. Our knowledgeable service staff provides educational training and technical assistance and our engineering and design staff offers years of industry experience," Kubish noted.

## A&R EQUIPMENT SPOTLIGHT

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# A Closer Look

by Donna Currie

## Copper Wire Stripper Carlo Dilegge • 888-419-3555

Carlo Dilegge and his business partner, Americo Gizzi, were working as plumbers while buying and selling scrap as a sideline when they came across a deal to buy the assets from an electrical company – most of it was copper wire.



Carlo Dilegge and Americo Gizzi receive an award from Andrea Klee.

When the wire arrived in Canada, where Dilegge had his business, he realized that while that wire was UL approved for use in the U.S., most of it wasn't approved for use in Canada.

Dilegge knew that the wire was worth considerably more as scrap if it was stripped, so he started processing the wire with a machine he had purchased. Before he could finish the work, the machine broke. He started thinking about finding a better way – a better machine – for stripping copper wire. Rather than buying a different machine, he had a prototype built.

He had no plans for making any more stripping machines. Dilegge just wanted to make the work easier for himself. But whenever he was selling clean wire at local scrap yards, he'd find himself talking to electricians who were looking for ways to efficiently strip their own copper wire. It wasn't long before Dilegge and his partner were mass-producing wire strippers and selling them to local electricians and others who needed to cleanly strip copper wire.

Dilegge called his business "a fluke" since it wasn't something he had planned on. If he hadn't bought such a large quantity of wire, or if it could have been used in Canada, or if his purchased wire stripping machine had worked well, he wouldn't have designed and built that first prototype. But once he realized there was a market for a small wire stripper, he seized the opportunity and started making and marketing those wire strippers. The first prototype cost him \$5,000 to make, and it took a year to perfect the machine before he was ready to market it. Now, the company sells 60-80 machines per month, all assembled by Dilegge and his partner.

While he and his partner do the final assembly, the components are made by a local machine shop, and then sent out to be anodized before assembly. Although the two are staying busy with their manufacturing, they aren't completely out of the wire stripping business. They still buy wire and strip it – using their own machines – when there's downtime in the shop. And of course they strip some wire on the machines to test them before they go out to customers.

Dilegge said that 80-90 percent of the machines are sold to electricians, worldwide. "We've probably sold 1,000 machines," he said, "and never had one come back." The machine is simple to operate and strips wire much faster and easier than stripping by hand. The rest of the machines are sold to small recyclers for use on jobsites, and to hobbyists. "Everyone who sees the machine is amazed by it," he said.

While the first few machines – just a few each month – were sold locally, Dilegge now goes to 3-4 trade shows each year, where he demonstrates the machines to prospective buyers. "There are over 100,000 electrical contractors in the US alone," he said. And there are millions of employees of those contractors who might have wire to strip. Each one of those is a prospective customer.

"Copper is like gold," he said. "It's one of the hottest commodities." And while copper wire is expensive, Dilegge explained that electricians never re-use electrical wire, so there's plenty of wire being scrapped from job sites. Since Dilegge's machine cleans wire about 90 percent faster than stripping wire with a knife, "most people say they don't know how they did without it."

In a way, his business is smaller now than when he and Gizzi had their plumbing business. Back then, they had 30 employees, but now it's just the two of them building and selling the stripping machines. While the business is a little simpler without employees, now he's got the challenge of keeping up with production. "They don't even get warm in the shop," he said. "They're out the door the next day."

Meanwhile, they're working on developing a machine for stripping smaller wire, and they sell a granulator that grinds copper wire and strips off the coating at the same time. That machine is meant for high-volume operations, since it processes up to 400 lbs. of material per hour. "You need a lot of volume to do that," Dilegge said.

Dilegge said that he likes the ability to "do his own thing" and he also likes the idea that his business is "green" since it makes it easier to recycle copper. "Every time the copper comes out of the ground, there's less of it."

He's also very happy that he was able to build a machine – and a business – from the ground, up. He said, "If someone puts their mind to something, they can do it."

# California contractor ordered to pay \$225,000 penalty

A Ventura County, California contractor, Thomas Staben, and his construction company, TA Staben, Inc., will pay a \$225,000 penalty for illegally dumping imported material into a Ventura County creek. Thomas Staben illegally filled Calleguas Creek with 40,000 cu. yds. of material – the equivalent of about 2,000 large dump truck loads. As part of the settlement, Staben will also spend at least \$500,000 on restoration and mitigation projects, including removing the fill and restoring the creek's natural functions. Calleguas Creek is the main freshwater source for the Mugu Lagoon Estuary, one of Southern California's largest coastal wetland systems and home to various endangered species.

Between 2005 and 2006, Staben filled approximately five acres of Calleguas Creek, also known as Arroyo Las Posas, without the necessary Clean Water Act (CWA) permit despite several warnings by the Army Corps of Engineers to stop. The illegal fill substantially reduced the active floodplain in this portion of the creek, increasing potential flooding of adjacent properties and contributing to the bioaccumulation problems harmful to the health of endangered species and other wildlife in Mugu Lagoon. Staben, who has a

history of noncompliance dating back to 1989, was cited by the Corps on various occasions for unpermitted work in Calleguas Creek and the Ventura River.

The creek has been the subject of extensive studies and protection efforts at federal, state and local levels due to its ecological significance and impaired water quality. As part of the restoration project Staben will remove the illegal fill material, restore the five acres of filled active floodplain, and create another two acres of vegetated embankment buffer between the floodplain and the upland property.

Restoration will allow the creek to perform the important ecological functions of recharging groundwater, retaining nutrients, attenuating floodwaters and providing habitats and movement corridors for wildlife. The project will also address long-term erosion problems of the adjacent property and reduce non-point source pollution.

Staben will also spend \$150,000 on mitigation by paying into the Ventura River Watershed Habitat Restoration Fund to help fund the Rice Creek Re-Alignment Project, which aims to create about 9 acres of new stream habitats and help maintain water quality for steelhead in the downstream Ventura River.

## Internap LEED

■Continued from Page 5

swimming pools of potable water saved annually.

•Reuse of building materials: To renovate the building, Internap reused more than 99 percent of the exterior structural components, avoiding the diversion of nearly 85 percent of its construction waste to landfills. Additionally, almost 15 percent of the materials came from recycled content from pre- and post-consumer materials.

•Energy efficiency: The building utilizes high-efficiency lighting, HVAC systems and controls that decrease power consumption by more than 30 percent compared to similar facilities.

Also, the Energy Star Target Finder tool showed a nearly 50 percent reduction in energy use compared to similar building types.

•Green power: The building's office area supplements its electrical load with green power, which helps to reduce strain on power companies and the greenhouse gas emissions caused by power plants.

•Green cleaning: A green cleaning program and policy, which utilizes low-VOC products, reduces air contaminants and harmful gases, promoting a healthier environment for building occupants.

•Transportation options: The facility includes environmentally-conscious transportation options, such as carpool parking stalls to encourage commuters to rideshare and geographic proximity to public transportation.

•Renewable energy: Internap recently purchased more than 400,000 kWh of renewable energy credits for the Santa Clara facility, helping to avoid 487,585 lbs. of CO<sub>2</sub>.

Randy Ortiz, director of data center design and engineering at Internap, said, "The design choices and practices that led to Internap's achievement of LEED and Green Globes certification at this facility will be instrumental to achieving similar standards across all of our company-owned data centers."

*The only problem with golf is that the slow people are always in front of you and the fast people always end up behind you.*

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- Allen Bradley centerline MCC
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- Belt scale for mill takeaway and frag stacker conveyor w/totalizer
- Conveyors (belt widths given)
  - Mill incline takeaway (60" x 73', 20 hp)
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