



# American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

## Agromin recycles nearly 380,000 tons of organic material in 2010

Agromin, the organics recovery company for more than 50 communities in Ventura, Santa Barbara, Los Angeles and Orange counties, recycled 379,792 tons of organic material from residents and businesses in 2010, up from 265,000 tons in 2009.

Agromin efforts keep organic materials out of landfills. Agromin compost is listed by the non-profit Organic Materials Review Institute (OMRI) so it can be used to produce certified organic products in accordance to the USDA National Organic Program standards.

## New regulations combat increased metal theft



■ Focus Section Cover, Page B1

# Recycled steel use growing with energy efficient buildings

by MIKE BRESLIN

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Everyone in the recycling industry is aware of the many benefits of recycled steel. It's less expensive and more environmentally sound than drawing materials from nature, and its recyclability virtually endless.

A basic North American oxygen furnace uses anywhere from 25 to 35 percent recycled steel to make new flat-rolled steel used in products such as automotive fenders and appliances, cans, metal roofing and numerous other thin-gauge applications. The electric arc furnace uses more than 80 percent recycled steel to make new beams, plate, rebar and other structural and flat-rolled products. Most new steel products, including their original recycled content, will eventually feed back into the recycling stream.

Recycled steel has always been important in construction, but now it is finding new roles in structural applications as it helps improve



Residential metal roofing in today's market is created with the intent to look much like common roofing material such as asphalt shingle, clay tile, cedar shake or slate roofing but will prove to be stronger and more durable.

energy efficiencies in commercial buildings and housing, becoming a high national priority for green buildings that seek to conserve resources and contribute to energy savings. On a smaller scale, this also applies to metals such as copper, aluminum and zinc, which are

also recycled into new building materials.

In February, during his Penn State University speech, President Obama called for businesses to improve energy efficiency in commercial buildings across the United States.

Responding to the speech, Lawrence W. Kavanaugh, president of the Steel Market Development Institute said, "The President has laid out an aggressive plan for retrofitting commercial buildings with energy-efficient upgrades. We can help businesses meet this challenge with steel technologies and products that are durable, cost-effective, provide long-term energy savings, and are available now."

Whether doing retrofits or new construction, architects and engineers are using more steel in buildings, not just for energy savings, but to mini-

mize maintenance costs and increase the life expectancy of buildings, satisfying sustainability objectives.

### Cooler steel

A major developing trend is greater use of "cool" metal roofing and wall products that help reduce building energy consumption by lowering cooling loads. Many of these newer metal roofing materials are coated with paints containing infrared pigments that increase solar reflectivity and thermal emissivity, saving significantly on energy costs for cooling. Reflectivity is essentially bouncing solar energy back into the sky rather than let it penetrate the building. Emissivity is the ability of a surface to reduce heat build-up by re-emitting energy into the sky not as heat, but as light.

"The reflective technology is relatively new, having  
See STEEL RECYCLING, Page 4



The recycled content of a metal roof is much greater than that in an asphalt roof.

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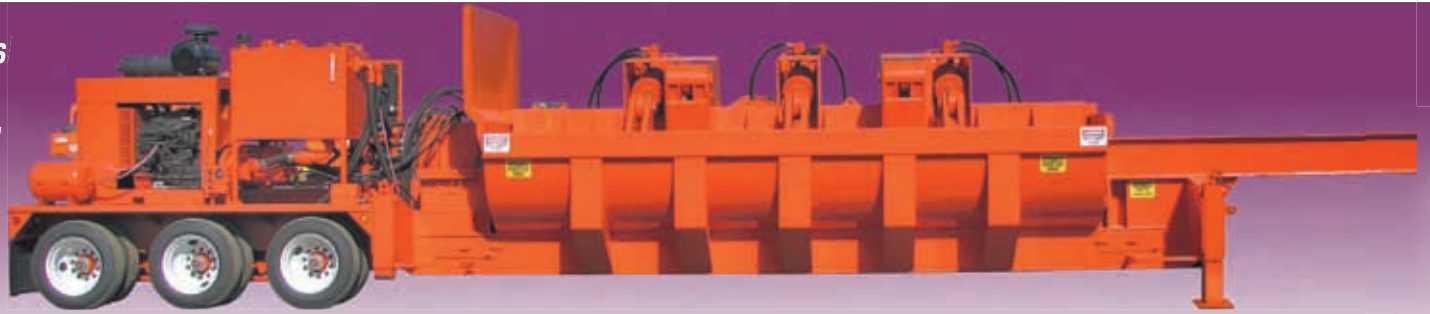


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## RailAmerica reports January 2011 monthly carloads

RailAmerica, Inc. reported that its total freight carloads for the month ended January 31, 2011 were 68,963, up 1.2 percent from 68,164 in January 2010.

The company increased shipments in January 2011 in 7 out of 12 commodity groups compared to January 2010. Much of the increase was due to shipments of chemicals, non-metallic minerals and products, and pulp, paper and allied products.

Chemicals increased primarily due to shipments in the Midwest, Northeast and Southeast regions.

Non-metallic minerals and products volumes were up in all regions.

Pulp paper and allied products volumes were up primarily due to increased shipments in the Southeast and Central regions.

The largest declines were in agricultural products and waste and scrap materials. Agricultural products were down primarily due to lower shipments in the Midwest and Central regions, and waste and scrap materials were down primarily due to decreased shipments in the Southeast, Northeast and Midwest regions.

## UC Davis takes first place in National Game Day challenge

The United States Environmental Protection Agency (EPA) will present UC Davis with an award for their impressive efforts to reduce waste during this year's Aggies' football season. The Northern California university took home first prize for achieving the highest waste diversion rate in the country as part of EPA's 2010 Game Day Challenge, a national competition for colleges and universities to promote waste reduction at their football games.

The Aggies' blew away their competitors by achieving a nearly 90 percent diversion of waste to recycling and composting, 20 percent higher than the second place university, Ohio State University. Their high mark was achieved during the October 23, 2010 home game when nearly all the waste generated by the crowd of 6,835 on hand was composted or recycled.

The amount of waste sent to a landfill was only 90 pounds.

Key to their success in approaching their zero waste goal has been a commitment by their concessionaire to only sell items that come in recyclable or compostable packaging. For example, only candy in paper boxes is sold, and beverages are served in compostable cups, including a compostable straw. Student monitors provide assistance to fans to help them place their waste in the correct containers.

During the EPA's National Game Day Challenge 77 participating schools targeted more than 2.8 million fans at football games. The schools together diverted more than 500,000 pounds of waste from landfills, which prevented the release of nearly 940 metric tons of carbon dioxide.

## RecycleMania kicks off 2011 recycling 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 6 through April 2, 2011, 630 schools representing 49 states, the District of Columbia and Canada 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.

RecycleMania is an opportunity for schools to raise awareness of their campus recycling programs as well as waste reduction and conservation issues in general. In 2010, 607 participating colleges and universities collected over 84.5 million pounds of recyclables and compostable organics.

Administrative support for the 2011 RecycleMania Tournament is provided by the national nonprofit Keep America Beautiful.

The competition is made possible with the sponsorship support of The Coca-Cola Company, Alcoa, Waste Management, SCA and the American Forest & Paper Association.

Additional program support is provided by the United States Environmental Protection Agency's WasteWise program and the College and University Recycling Coalition (CURC).

## Miami-Dade County commended

Miami-Dade County received a "Champion for Alternative Fuel Vehicles and Alternative Fuels Award" from the Florida Gold Coast Clean Cities Coalition.

The award was given for several County initiatives related to the use of alternative fuels and the vehicles that use them, including biodiesel and a variety of hybrid vehicles.

The award was presented to Miami-Dade County for:

- Use of a five percent biodiesel blend across the county fleet since April 2009;
- 457 hybrid electric vehicles in the county fleet;
- 38 diesel-electric hybrid buses in use; and
- 6 hybrid hydraulic waste collection vehicles in use.

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# Steel recycling

■Continued from Page 1

emerged over the past decade or so, but it's just now reaching more broadly into the marketplace thanks to all the emphasis on energy efficiency. Thus the sale of metal roofing keeps going up," said Greg Crawford, executive director of the Steel Recycling Institute and as executive director of the Cool Metal Roofing Coalition. "Unpainted Galvalum (a 55 percent sheet steel product coated with aluminum and zinc) in many applications can be considered a cool metal roof because of its excellent reflectivity. Even cooler is the painted steel roof with infrared reflective pigments in the painting system. It not only provides a metal roof with very reflective properties, but it also has greatly improved emissivity that throws off heat."

As reported by Lawrence Berkeley National Laboratory, installation of reflective metal roofing can save up to 40 percent in cooling energy costs. At the same time, highly emissive metal roofs can reduce urban air temperatures by as much as 12°F, helping to mitigate the "heat island effect" where the density of building in an urban area raises temperatures.

A basic, unpainted galvanized metal roof will reflect much of the solar radiation usually absorbed in a home under an

asphalt roof. Homes in warmer climates, with pre-painted reflective metal roofing systems not only reflect solar energy but also cool the home by re-emitting most of the solar radiation captured temporarily on the roof surface. Where annual cooling loads dominate, a highly reflective and highly emissive painted or granular-coated metal roof is optimal for reducing energy consumption and can actually re-emit up to 90 percent of absorbed solar radiation.

"Generally, the reflectivity of asphalt roofing is low on the average of 20 percent or less and it gets lower, the darker color the roof. While it does not reflect well it has good emissive qualities. Metal roofing is going to be more expensive, maybe twice as expensive for a given job. However, the big trade off is the long, credible service life of a metal roof on the order of 30 to 35 years, including the superior energy savings potential over that time," said Crawford.

Most metal roofing can be installed directly over asphalt shingles or membranes. In new construction and retrofits, green-conscious architects and builders are installing metal roofs with above sheathing ventilation (ASV), which can contribute up to a 30 percent additional reduction in heat gain through the roof. Crawford explained: "With ASV you install bats oriented up and down the roof and put the metal roofing on top of the bats to create an air vent of about one inch. As we all know, heat rises. As the roof heats up during the day, the heat in the air gap rises and automatically vents out the ridge. This reduces heat that could potentially go into the structure's envelope. In winter, the air space is still and actually acts as an additional insulating layer."

A metal roof can also offer additional protection compared to asphalt roofing from assaults from nature and can potentially reduce insurance costs. "Whether it's worries about fires, hail storms, hurricanes, or other such events, we say that properly installed metal roofing is about as good as you are going to get. In California, homeowners who had metal roofs fared much better amid the wildfires. You can find stunning examples where fires simply skipped over them," Crawford noted.

"We think market share for metal residential roofs in the United States is right around nine percent according to annual surveys by McGraw-Hill Analytics. Over the last 10 years, it's grown from about 3 percent," said Tom Black, executive director of the Metal Roofing Alliance, a group of contractors, manufacturers and suppliers of investment grade roofing. "These numbers include new construction as well as re-roofs, but by far the largest portion, 90 percent of the metal installed each year, is for re-roofing."

Black continued, "For new construction a developer or builder is going to put the money into square footage, or the kitchen, something that sells the house rather than put money into the roof. But in a re-roof, it's the consumer and the contractor making the decision. They are looking for long-term value, wanting to make it the last time that they have to deal with the roof. They are also considering weather events, especially in the Midwest where metal roofing stands up really well to devastating hail storms. Depending on where you are in the Midwest you can get discounts on your homeowners insurance, up to 35 percent in some areas of Texas. It depends on the insurance companies. I like to use a range of 20 to 25 percent discounts on average."

### Solid solar power platforms

As more homebuilders and commercial real estate developers include rooftop solar generation, metal roofing has become the preferred foundation for heavy photovoltaic panel arrays. Metal roofing can be expected to last longer than the solar panels themselves, which are typically performance warranted for 25 years. Panels can actually have productive lives of 35 to 40 years. It makes little sense to install solar panels on a membrane roof with a lifespan of 15 to 20 years because when the roof has to be replaced the panels have to be disconnected, removed and reinstalled at great expense. A solar module can be installed on a metal roof with a simple attachment that does not penetrate the roof, making panel swaps easy.

Metal roofing and walls are also ideally suited to the new breed of thin-film

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## American Recycler

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American Recycler is published 12 times per year, postage paid at Columbia, Missouri.

SUBSCRIPTIONS: Call our offices at 877-777-0737 or visit www.AmericanRecycler.com. US 1 year \$48; 2 years \$72.

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# EPA defers greenhouse gas emissions reporting

The United States Environmental Protection Agency (EPA) has issued a final rule that extends the deadline for reporting 2010 data under the Greenhouse Gas (GHG) Reporting Program to September 30, 2011. The original deadline was March 31, 2011. EPA previously announced its intent to extend the deadline on March 1, 2011.

Under the GHG Reporting Program entities required to submit data must register with the electronic GHG reporting tool (e-GGRT) no later than 60 days before the reporting deadline. With this reporting deadline extension, the new deadline for registering with e-GGRT is August 1, 2011.

Following conversations with industry and others and in the interest of providing high quality data to the public this year, EPA is extending this year's reporting deadline to September 30, 2011. This extension will allow EPA to further test the system that facilities will use to submit data and give industry the opportunity to test the tool, provide feedback, and have sufficient time to become familiar with the tool prior to reporting.

In addition to the nine rulemakings necessary to comply with congressional direction for the program, over the past two years EPA has established a public help center that operates through our website and efficient mechanisms for stakeholders to get answers from EPA experts to detailed technical questions. EPA has also conducted training sessions with each affected sector and held hundreds of meetings with stakeholders across the country.

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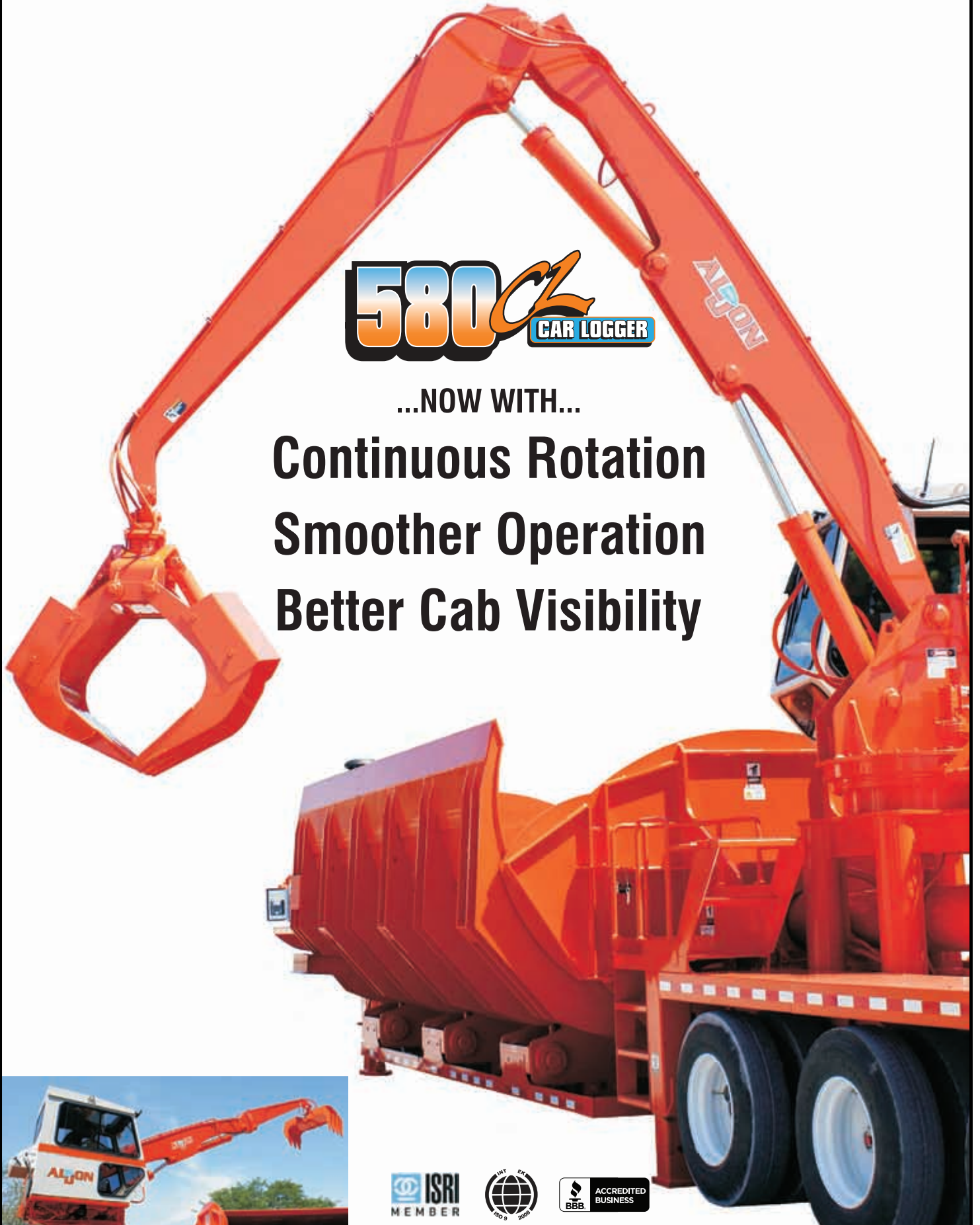


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# Recycling industry growth showcased in Pennsylvania

The Pennsylvania Recycling Industries Congress called attention to the importance of the recycling industry.

Tim O'Donnell, president of the Pennsylvania Waste Industries Association (PWIA), and Michele Nestor, chair of the Pennsylvania Recycling Markets Center (RMC), said the event showed that recycling has now become an economically important industry in its own right in Pennsylvania and that the private sector is driving its growth.

"Many Pennsylvanians still have an outdated understanding of recycling," Nestor said. "The environmental benefits associated with recycling are well recognized, but less well known is that recycling represents a growth segment in today's marketplace."

O'Donnell said, "Recycling in Pennsylvania has matured into a real business, a new kind of industry, and one that is growing in importance to the state's economy."

The two said the Recycling Industries Congress, which featured more than two dozen companies from around the state, helped show that recycling now encompasses a spectrum of successful and growing businesses.

They said the event also demonstrated the connection between the supply and demand sides in recycling – that jobs are being created by more than just collecting and processing recyclables; that jobs are also being created by the use of these recycled materials to make new products and by the opening up of markets for these products.

A 2009 study by the Northeast Recycling Council said 3,803 establishments involved in or reliant on recycling or involved in reuse and remanufacturing generated 52,316 jobs with an annual payroll totaling of \$2.2 billion in Pennsylvania – while also bringing in gross receipts of \$20.6 billion. A 2007 PWIA economic study of the private-sector waste industry in Pennsylvania, which overlaps with recycling, found that the industry generated



Visitors to the Pennsylvania Capitol in Harrisburg view one of the recycling exhibits at the PA Recycling Industries Congress.

nearly 31,500 jobs and contributed more than \$3 billion a year to the Pennsylvania economy in expenditures, purchasing, and spending from industry wages. That impact has almost certainly grown since the study was finished four years ago.

Nestor and O'Donnell said both studies point to the same new economic reality of recycling, namely that the recycling industry is making a strongly positive impact on Pennsylvania's economy.

They pointed out that while state government played an important role in the early development of recycling – through mandatory community recycling laws and program grants – recycling is able to stand on its own as a financially self-sustaining industry.

Both underscored the fact that in the past few years private-sector companies have invested more than \$66 million in Pennsylvania in new recycling facilities, high-tech sorting and processing equipment, and a variety of re-use and re-manufacturing ventures.

## Oklahoma Materials Recycling and Veolia partner to recycle hydrotreating catalyst

Veolia ES Technical Solutions, LLC, the hazardous waste division of Veolia Environmental Services North America, and Oklahoma Materials Recycling (OMR) have signed a teaming agreement whereby Veolia will exclusively provide up-front sales and marketing services for OMR's catalyst recycling plant currently under construction in Atoka, Oklahoma.

The new plant uses proprietary ACTR technology developed by Advanced Fibers and Powders and licensed by OMR. This approach to catalyst recycling provides a new option for the petroleum refining industry to recycle spent hydrotreating catalysts containing the valuable base metal molybdenum (Mo). Using a thermal chemical process instead of the current hydrometallurgical process to recover Mo, the plant has several advantages:

- The plant produces no liquid discharges, thereby mitigating environmental issues that can be problematic for competing technologies.

- It minimizes the use of water in the process of producing molybdc oxide saving precious water resources.

- The technology is capable of separating tungsten from molybdenum allowing refinery companies to recycle hydrotreating and hydrocracking catalysts that contain both metals. Current hydrometallurgical technologies are not able to effectively process spent catalysts with both metals present.

The OMR recycling operation will meet the highest standards for environmental compliance and stewardship regarding storage and handling of catalyst, air emissions and water discharges. Petroleum refining customers can have confidence that their feedstocks will be recycled responsibly. The plant construction is rapidly progressing with plans to begin processing catalyst in late second quarter 2011.

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# Ford helps drivers maximize fuel economy

Ford Motor Company has received two patents related to SmartGauge with EcoGuide, an instrument cluster for hybrid owners.

The first patent was awarded earlier this year and covers EcoGuide, the display of leaves and vines that “reacts” to short-term driving habits and coaches drivers in a way that helps them achieve the best fuel economy. The second patent, awarded March 1, covers the power threshold gauge that measures and displays power demand at any given moment.

SmartGauge with EcoGuide features two 4.3” full-color liquid crystal display (LCD) screens on either side of the analog speedometer that can be configured to show different levels of information, including fuel and battery power levels, and average and instant miles per gallon.

The power threshold gauge is important, explained David Watson, research engineer and part inventor of SmartGauge with EcoGuide, because it shows how close a vehicle is to switching from electric-only mode to blended mode. With that information, the driver may adjust driving behavior to try and keep the vehicle in electric-only mode.

Taking a design cue from the Ford hybrid leaf logo, Ford graphic designers developed an animation of growing leaves and vines that track and reward a driver’s efficiency.

Called EcoGuide, the function also displays how many miles per gallon a vehicle is getting at any given moment and estimates how many more miles a vehicle has until it runs out of fuel.



SmartGauge™ with EcoGuide is an instrument cluster that coaches hybrid owners on how to maximize their fuel efficiency.

The feature allows drivers to choose one of four data screens including:

- Inform: This is the basic level of information such as fuel level and battery charge status.

- Enlighten: The default display mode, this screen displays what mode the vehicle is operating in and instantaneous fuel economy; it includes a tachometer.

- Engage: This screen includes a gauge that shows gasoline and electric power use.

- Empower: This level gives a full range of hybrid information that allows drivers to monitor the level of their driving efficiency.

All levels show engine coolant temperature and the gear the vehicle is in. Also, they are customizable to show instant fuel economy; fuel economy history; odometer and trip data, including trip fuel economy; long-term fuel economy and miles to empty. And while most competitive vehicles have some of this information in the center stack, Ford has made it conveniently located right in front of the driver on the instrument panel.

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## WASTE

# Fairfax County utilizes hydrostatic regenerative braking in trash truck

The Fairfax County Solid Waste Program in Virginia is using a Bosch Rexroth parallel hydrostatic regenerative braking system (HRB) in the county's first hydraulic hybrid trash and recycling vehicle. The Rexroth HRB system was retrofitted in January 2011 on a 2007 Mack Truck Granite Chassis with a Heil Environmental Formula® 5000 rear loader body.

According to Michelle DuHadway, account manager for Rexroth's parallel regenerative hybrid braking systems unit, the HRB system can generate up to 25 percent savings in fuel and energy costs depending on duty cycle and driver behavior. The actual savings for this project will be determined during these field trials.

The Rexroth HRB system, funded by a grant from the American Recovery and Reinvestment Act, uses a hydraulic pump/motor connected to the driveline, to capture kinetic energy during vehicle braking. When the driver presses the brake pedal, a hydraulic unit integrated into the drivetrain presses the hydraulic fluid into a high-pressure reservoir. The resulting resistance makes the vehicle decelerate. When accelerating, the hydraulic pressure reservoir is controlled electronically to release the pressure and relieve the load on the diesel engine. Each time a driver brakes, the HRB system stores energy which would otherwise be lost.

"Every refuse truck in Fairfax County stops and starts about 800 times a day filling trash and recyclables," added Ben Boxer, communications and outreach manager for the Fairfax County Solid Waste Management Program.

Hydraulic hybrids have the potential to capture a large portion of the braking energy and use it more effectively, extending brake wear and reducing brake maintenance costs and the associated vehicle downtime. Since it is possible to slow the vehicle without engaging the foundation brakes as often, the life of the vehicle's brakes is extended and the amount of brake dust released into the environment is reduced.



# WM and Genomatica in strategic agreement to turn solid waste into chemicals

Waste Management and Genomatica announced a strategic joint development agreement to research and advance Genomatica's technology and manufacturing processes to enable production of intermediate and basic chemicals from syngas made from municipal solid waste.

Under the agreement, Genomatica will create proprietary, specially-designed organisms and complete manufacturing processes to efficiently and economically convert syngas into chemical products. Genomatica's patents, intellectual property and technology platform should facilitate further refinement of organisms and processes to allow chemical production from syngas produced from locally-available waste with varying characteristics. Biological production of chemicals would provide another potential use for any syngas produced by or for Waste Management through anaerobic digestion, gasification and landfill gas.

Syngas is produced throughout the world from natural gas or liquid hydrocarbons, and through the gasification of coal, biomass, and waste materials. Syngas is a low-cost input material often used to generate electricity, and can also be converted into liquid fuels. Prior to Genomatica, converting syngas to chemicals was primarily done through chemical processing techniques, which were generally energy-intensive and limited in their ability to produce specific chemical products. Supported by the new joint development agreement, Genomatica is working to enable the conversion of syngas into desired, major market intermediate and basic chemicals.

The joint development agreement with Genomatica complements Waste Management's comprehensive waste services in the areas of recycling, landfill, waste-to-energy and landfill gas-to-energy. This agreement will also help move Waste Management toward meeting three of its sustainability goals – doubling its renewable energy production and tripling the amount of recyclables processed by 2020, and investing in emerging technologies for managing waste.

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## WASTE

# Casella Waste divests non-integrated recycling assets

Casella Waste Systems, Inc. has reached a definitive agreement to sell select non-integrated recycling assets to a new company formed by Pegasus Capital Advisors, L.P. and Intersection, LLC for \$130.4 million in gross proceeds.

The anticipated net cash proceeds of \$117.4 million are expected to be used to repay Senior Secured Term Loan B borrowings.

"With this important transaction, we will have made substantial progress towards our objective to delever the balance sheet," said John W. Casella, chairman and chief executive officer of Casella Waste Systems. "

Craig Cogut, founder and managing partner of Pegasus Capital Advisors, L.P., will serve as chairman of the new company.

Pursuant to the purchase and sale agreement and related agreements entered into by Casella and the buyer on January 23, 2011, the company will divest the following assets:

FCR recycling assets located outside the Company's core operating region of New York, Massachusetts, Vermont, New Hampshire, Maine and

northern Pennsylvania, including 17 material recycling facilities (MRF), 1 transfer station and certain related intellectual property assets. Following the transaction, Casella will retain four integrated FCR MRFs located in its core operating region.

Closing of the transaction is expected to be in the fourth quarter of fiscal year 2011 and is subject to customary closing conditions. In the event that the buyer failed to consummate the transaction by March 15, 2011, following the satisfaction by the company of all closing conditions, the buyer will be required to pay a reverse termination fee of \$6.5 million.

At the closing of the transaction, Jim Bohlig, an officer and board member of the company, will join the buyer as their chief executive officer.

Casella expects to receive \$130.4 million of gross proceeds from the transaction. After netting transaction costs and cash taxes payable in conjunction with the divestitures, Casella expects the net cash proceeds to amount to \$117.4 million.

## Steel recycling

■Continued from Page 4

solar cells that are growing in popularity because of lower production costs than traditional polysilicon panels. These thin-film laminates are a lightweight, flexible, and a durable alternative to conventional glass-faced photovoltaic arrays that many people find unsightly. Not only more aesthetically pleasing than PV modules, thin-film silicon solar laminates can be applied between the seams on existing metal roofs and siding or laminated onto new building materials. Thin-film silicon solar has come a long way over the past few decades and now represents approximately 20 percent of all solar cells being manufactured today.

In the near future, emerging nanocrystal and dye-sensitive solar cell technologies with micron-thin layers may be deposited or printed on metal substrates. This holds the promise to truly revolutionize the function of metal building materials by adding a cheap, distributed source of electricity generation.

### Aesthetic challenges

Consumer perceptions have been largely clouded by the old fashioned galvanized roofs long used on farm and commercial buildings which have shown unsightly rusting after decades in service, even though they maintained their waterproofing. They fail to recognize the good economics of installation costs versus length of service, nor the new advances that have been made in metal roofing and siding technology.

Today, metal roofing and side panels are fabricated from steel and alloys to mimic most every other type of building material and are available in virtually every profile, finish and color. Lighter col-

ors offer the best reflectivity and emissivity, therefore better energy performance. In appearance, metal roofing systems are designed to be indistinguishable from typical roofing materials. Factory produced products with infrared pigment coatings are self-cleaning with normal rain. Smooth surfaces make it difficult for dirt and algae to build up, which maintains a cleaner surface and optimizes the reflectivity and emissivity characteristics.

### Earning green points

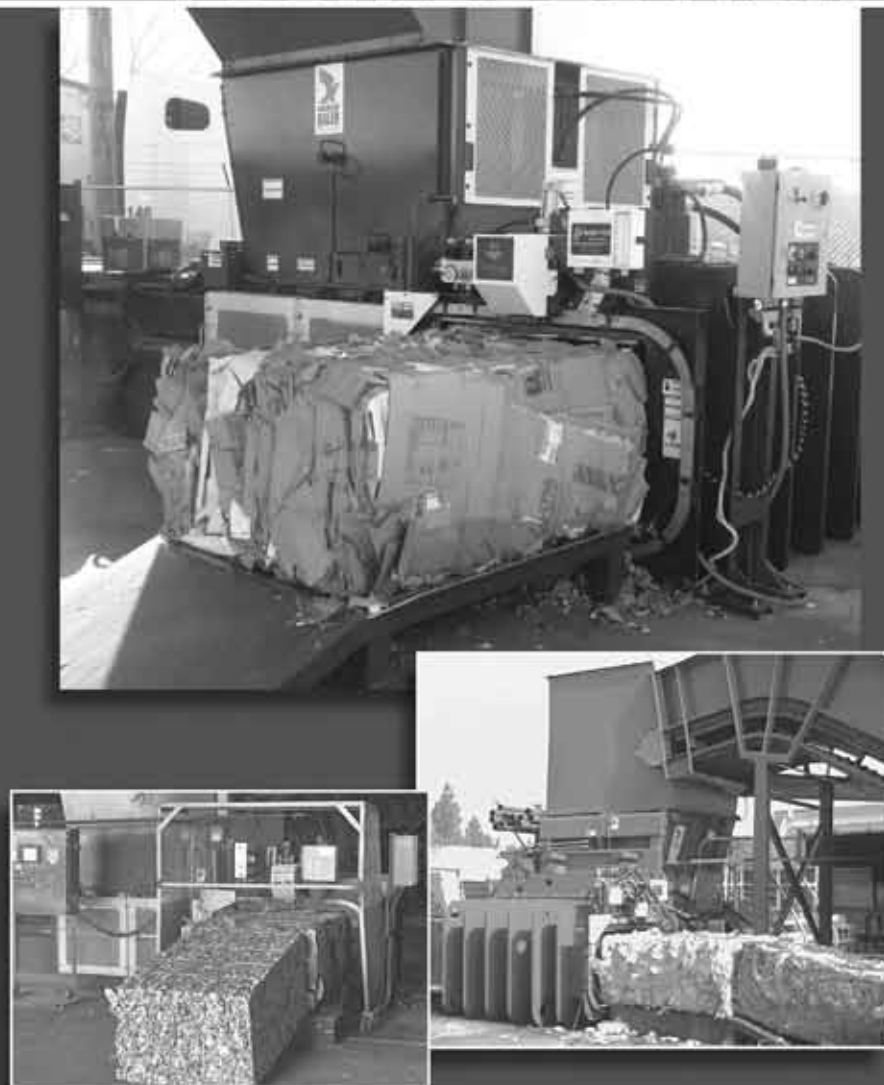
Because of high recycled content and the ultimate recyclability of the material as well as energy efficiency factors, cool metal building products can help contribute towards points under the U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) green building rating system.

Architects, real estate professionals, engineers, builders, lenders government officials are looking to acquire LEED points for a given award level, such as Gold, but essentially the design can be seen as adding value to a property. LEED rated homes and commercial buildings are becoming the new standard in green excellence.

"There is a federal tax rebate for painted cool metal roofs, but it must meet the Energy Star requirements to qualify. It's 10 percent of the material cost or a maximum of \$500," said Black.

Green is good for the environment, but the real green is in the dollars saved by using recycled and recyclable metals in building materials, not just because it rightfully conserves resources, but because well performing metal construction products are also stronger and more durable and thus, all the way around, a better investment in the long run.

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## WASTE

### Waste Connections reports better fourth quarter results

Waste Connections, Inc. announced its results for the fourth quarter of 2010. Revenue totaled \$336.0 million, an 8.4 percent increase over revenue of \$309.9 million in the year ago period. Operating income was \$67.7 million, or 20.2 percent of revenue, versus \$58.9 million in the fourth quarter of 2009. Net income attributable to Waste Connections in the quarter was \$36.1 million, or \$0.31 per share on a diluted basis of 115.3 million shares. Shares and per share numbers reflect a three-for-two stock split effective November 12, 2010.

Adjusted net income attributable to Waste Connections in the quarter was \$36.7 million, or \$0.32 per share, adjusting for acquisition-related costs expensed due to the implementation of accounting guidance for business combinations effective January 1, 2009.

"Increasing disposal volumes, record recycled commodity values, strong core pricing, and a stable cost structure drove

results above expectations throughout 2010. Adjusted operating income before depreciation and amortization as a percentage of revenue expanded more than 100 basis points in 2010 over the prior year, and adjusted EPS increased 26.5 percent. We generated record free cash flow during the year, remained disciplined in our acquisition strategy, and returned approximately 6 percent of market cap to shareholders," said Ronald J. Mittelstaedt, chairman and chief executive officer.

For the year ended December 31, 2010, revenue was \$1.32 billion, a 10.8 percent increase over revenue of \$1.19 billion in the year ago period. Operating income was \$272.4 million, versus \$230.7 million for the same period in 2009.

Net income attributable to Waste Connections for the year ended December 31, 2010, was \$135.1 million, or \$1.16 per share on a diluted basis of 116.9 million shares.

### Casella Waste acquires municipal solid waste landfill in Pennsylvania

Casella Waste Systems, Inc. has acquired a municipal solid waste (MSW) landfill in McKean County, Pennsylvania out of bankruptcy proceedings for \$0.5 million in cash and the assumption of certain contractual obligations.

The roughly 230 acre landfill is permitted by the Pennsylvania Department of

Environmental Protection to accept 1,000 tons per day of MSW by truck and 5,000 tons per day by rail. While a rail siding is permitted at the site and the property abuts a railroad spur, the company has no immediate plans to build a rail siding. The site has over 33.5 million cubic yards of permitted airspace.

## CONSTRUCTION & DEMOLITION

### Coastal Recycling opens C&D recycling center in Jacksonville

Twenty to 25 new jobs will be created in North Jacksonville when Coastal Recycling Services opens their new Construction and Demolition materials recovery facility in July. Company officials say they expect to add more jobs as the volume of waste brought to the facility increases.

The total cost of the project will top \$11 million; \$4 million comes from an SBA loan.

Financing and special permitting requirements caused delays in starting the project. Coastal was required to obtain state and local permits to build and operate the new facility. Jacksonville's Certificate of Public Convenience and Necessity requires all recycling facilities to recycle a minimum of 60 percent of product brought into the facility once operational, and a minimum of 80 percent of product within 30 months of opening.

"The costs associated with recycling at this level are significant," said Charlie Latham, co-managing partner of Coastal Recycling. "We are spending substantially

more money on specialized recycling equipment because of the city's aggressive recycling rate requirements. Of course, we support the city's recycling goals and look forward to contributing to the state's new recycling goal of 75 percent by 2020," said Latham.

The facility will include a solar power system capable of providing approximately 10 percent of the recycling equipment's power needs.

"Coastal made a conscious decision not to provide hauling services," said Bob Malouin, co-managing partner of Coastal Recycling, "There are plenty of first-rate haulers in town; our intent is to work with them to bring in, process and recover as much waste as possible."

Once separated, recycled product is prepared and shipped to processing facilities and end-users throughout the Southeast United States. "We are still seeking relationships with end users in our market, and will continue to do so as we prepare to open our facility," said Latham.

### Armstrong recycles ceiling tiles

Armstrong World Industries' Ceiling Recycling Program has now diverted more than 100 million square feet of old ceiling tiles from landfills.

The recycling program, which is the nation's first of its kind, enables building owners to ship ceilings from renovation

projects to the nearest Armstrong ceiling plant as an alternative to landfill disposal.

The company pays the freight costs for shipping the old ceilings, which it uses as raw materials in the manufacture of new ceilings. Since 1999, over 50,000 tons of mineral fiber tiles have been recycled.

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**INTERNATIONAL**

**Coca-Cola to change plastics recycling in Great Britain**

Coca-Cola Enterprises, Ltd. (CCE) has unveiled a joint venture with ECO Plastics to develop a new purpose-built recycling facility in Lincolnshire. The deal marks a step change in the Great Britain (GB) plastic reprocessing industry.

Around 35,000 tons of PET bottles were reprocessed in GB last year. The new facility will increase this total to more than 75,000 tons when it is fully operational – more than doubling the amount of high-quality rPET (PET that is recycled to make food-grade, sustainable packaging) currently produced in Britain.

The state-of-the-art plastics reprocessing plant will also supply CCE with enough GB-sourced, high-quality rPET to achieve CCE's target of including 25 percent rPET in all its plastic packaging in GB by 2012.

Currently, CCE sources food-grade rPET from continental Europe, while around two-thirds of used GB plastics packaging is exported for reprocessing.

The new recycling facility will be built on ECO Plastics' current site in Lincolnshire, and will be operational next year.

The joint venture will create 15 jobs during the construction phase and up to 30 new jobs once the site is operational.

**PAPER**

**AF&PA United States paper reports for January 2011**

The American Forest & Paper Association released the January 2011 U.S. Containerboard, Kraft Paper and Paperboard Statistics Reports.

For the fifteenth straight month, containerboard production rose over the same month a year ago. Total production saw an increase of 127,900 tons or 4.6 percent when compared to January 2010. Production rose compared to December 2010, with month over month average daily production up 4.0 percent. The containerboard operating rate for January 2011 was up 4.1 points over January 2010 to 96.1 percent.

Key findings in this report include:  
 •Linerboard production continues the trend.  
 •Medium production up from last year.

Total Kraft paper shipments were 129.5 thousand tons, a decrease of 3.0

percent compared to January 2010, but up 2.1 percent when compared to December 2010. Total inventory was 78.2 thousand tons.

Key findings in this report include:  
 •Total Unbleached Kraft shipments declined over same month last year.  
 •Total Bleached Kraft shipments were up over January 2010.

The paperboard report indicates that total boxboard production increased by 8.3 percent compared to January 2010, and increased 5.5 percent from last month.

Key findings in this report include:  
 •Unbleached Kraft Folding production is flat compared to January 2010.  
 •Solid Bleached Folding up over same month last year.  
 •Recycled Folding production increased over last month.

**Study confirms folding cartons meet FTC recyclable standard**

A new study commissioned by the American Forest & Products Association (AF&PA) confirms that folding cartons meet the Federal Trade Commission (FTC) standard necessary to display the term recyclable on that packaging. In response to the findings of this RW Beck study, the 100 percent Recycled Paperboard Alliance (RPA-100 percent) is releasing guidance to their licensees about

adding the recyclable claim to enhance the existing RPA-100 percent symbol.

The study shows that 74 percent of communities currently accept paperboard into their recycling systems.

During 2011, the RPA-100 percent plans to significantly increase its efforts to promote the recyclability of packaging made from 100 percent recycled paperboard.

**ELECTRONICS**

**EPA intercepts electronic waste shipment**

Metro Metals Corp. and Avista Recycling, Inc. have been ordered to properly dispose of computer waste they attempted to illegally export from Minnesota to Vietnam, according to the United States Environmental Protection Agency (EPA). EPA is simultaneously seeking a \$31,600 penalty against the companies for violating federal hazardous waste laws.

Metro Metals Corp., a Toronto, Canada, based company, and Avista Recycling, Inc., a recycling company operating in Hopkins, Minnesota, arranged for the export of 913 discarded computer monitors to Vietnam on December 6, 2010. United States Customs and Border Protection agents intercepted the shipment, which had been incorrectly identified in shipping paperwork as "scrap plastic," at the Port of Seattle for inspection before it could leave the United States.

EPA alleges that the companies violated several federal hazardous waste management requirements designed to ensure the proper management and transport of such wastes. First, the companies failed to evaluate their waste and identify it as hazardous. They also failed to manifest the waste or comply with other pre-transit requirements for such shipments. The companies also failed to notify EPA of their intent to export the waste to Vietnam and, consequently, attempted to bypass the process required for Vietnam to consent to receive hazardous wastes from the United States before it can leave the country.

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## ELECTRONICS

### Rechargeable battery recycling surges in New Jersey

In 2010, New Jersey residents made great strides toward becoming responsible consumers of wireless technologies by recycling 22.5 percent more rechargeable batteries than the previous year. The increase was due in part to the statewide awareness efforts of the Association of New Jersey Household Hazardous Waste Coordinators (ANJHHC), in partnership with Call2Recycle.

At the beginning of the year, the 2 organizations developed a plan to work with businesses and government agencies across the state to increase rechargeable battery recycling efforts by 15 percent. Through advertisements, community newsletters, newspaper articles and meet-

ings with municipal officials, ANJHHC and Call2Recycle spread the word about the importance and ease of battery recycling. New Jersey residents received the message and successfully diverted more than 110,000 pounds of rechargeable batteries from landfills.

Call2Recycle has a network of more than 1,400 retailers, public agencies and businesses throughout New Jersey that serve as rechargeable battery collection sites. The organization accepts all rechargeable batteries, up to 11 pounds each, used for items including laptops, cell phones, digital cameras, two-way radios and back-up power supplies.

### Pelham students learn importance of recycling electronics

Students from Pelham Memorial High School got an education about the importance of recycling their smart phones and other electronics on a tour of the

WeRecycle! plant in Mount Vernon, New York.

The tour gave the students an up-close look at where their old cell phones and computers should properly end up.

Between 300 million and 400 million electronic items are disposed of in the United States every year. Less than 20 percent of that e-waste is recycled. Although e-waste represents 2 percent of America's trash in landfills, it equals 70 percent of overall toxic waste, due to the presence of heavy metals.

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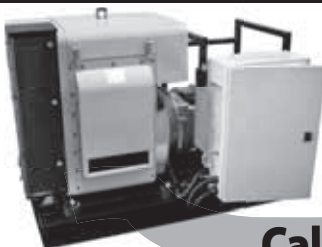
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## PLASTICS

### Recycling of non-bottle rigid plastics up nearly 50 percent

The American Chemistry Council released a new report which documents a dramatic increase in the collection and recycling of post-consumer non-bottle rigid plastics across the United States. The report, prepared by Moore Recycling Associates, Inc., found that in 2009, nearly 480 million pounds of post-consumer rigid plastics were collected for recycling nationwide, an increase of nearly 33 percent from 2008 and 47 percent since 2007.

The category "non-bottle rigid plastics" includes nondurable items (or packaging), such as high-density polyethylene (HDPE) tubs, polypropylene (PP) cups and similar food containers, and durable items, such as pallets, crates, carts, five gallon buckets and electronic housings.

According to the report a growing number of reclaimers have begun processing non-bottle HDPE and PP containers to produce resin for new end products. And the number of communi-

ties collecting mixed rigid plastics also has grown in response to demand.

Among the report's key findings:

- There has been an increase in the number of processors, end users and reclaimers of rigid plastics in 2009;

- In just 1 year, there has been a 33 percent increase in collection of non-bottle rigid plastics; and

- The number of communities offering rigid plastics recycling continues to increase.

Over 63 percent of households in California now have access to recycling of non-bottle rigid plastics, and recycling programs across the country are being expanded to collect rigid containers.

The report is based on data supplied by 60 post-consumer plastic processors, end-users and exporters across the United States.

The full report, "2009 National Post Consumer Report on Non-Bottle Rigid Plastics Recycling," is available on [www.americanchemistry.com/plastics](http://www.americanchemistry.com/plastics).

### North Carolina launches new plastic bag recycling program

North Carolina became the fourth state in the nation to join the "A Bag's Life" recycling movement by providing a statewide recycling education program and helping consumers find the nearly 1,200 drop-off sites in the state at grocery and retail stores.

North Carolina retailers and legislators announced participation in the plastic bag recycling awareness campaign, which provides an educational website at [www.abagslife.com/NC](http://www.abagslife.com/NC), an app that locates drop-off sites by zip code and a make-your-own video contest that will begin in the fall.

State Representative Ruth Samuelson and State Senator Buck Newton, the North Carolina Retail Merchants Association and Keep North Carolina Beautiful are among those involved in the public-private partnership to encourage North Carolina residents to recycle plastic bags.

A Bag's Life, through quirky messaging like "Don't treat me like trash" and "Gimme a second chance," encourages consumers to reduce, reuse and recycle their free grocery bags. It also reminds people that other bags like those used for dry cleaning, newspapers and bread, as well as wraps and films used on products like paper towels or bottled water also can be dropped off at many retailers for recycling.

The plastic bag icon on the website is designed to take on a life of its own, smiling when it's happy, frowning when it's not. Website copy suggests that individuals should step up and do their part to address litter and waste rather than blame the bag if it's not being recycled or reused.

Nationwide, plastic bag recycling is on the rise, with nearly 855 million pounds recycled in 2009 – an increase of 31 percent since 2005.

### Earthworks provides 100 percent recycled PVC sheet for plastic cards

Earthworks System LLC, announced the release of color-matched, 100 percent recycled, PVC sheet material for gift, loyalty, membership and credit cards.

Earthworks System offers retailers, distributors and printers a way to keep cards out of landfills and save energy, recovering waste throughout the PVC supply chain from manufacturing runouts and skeletons to obsolete inventory and post-consumer used gift cards. The various forms are recycled into sheet material that is virtually indistinguishable in performance from virgin PVC. Earthworks plastic is used in a wide variety of applications including gifts cards, hotel key cards, promotional cards, IDs and signage.

This new sheet uses 100 percent recycled PVC. The colored material differentiates itself by providing a custom-colored card edge.

This program is the latest of Earthworks' card recycling efforts. In November, Earthworks supplied Dallas-based card manufacturer Performance Card Solutions with 100 percent recycled PVC and an eco-friendly content identifier system. This identifier system indicates cards manufactured using recycled or virgin PVC, which integrates with current card programs, allowing retailers using cards made of recycled or virgin PVC to brand them as eco-friendly. Consumers can also return the cards for recycling.



## PLASTICS

# PepsiCo develops 100 percent plant-based PET bottle

PepsiCo has developed the world's first PET plastic bottle made entirely from plant-based, fully renewable resources, enabling the company to manufacture a beverage container with a significantly reduced carbon footprint.

PepsiCo's "green" bottle is 100 percent recyclable and far surpasses existing industry technologies. The bottle is made from bio-based raw materials, including switch grass, pine bark and corn husks. In the future, the company

expects to broaden the renewable sources used to create the "green" bottle to include orange peels, potato peels, oat hulls and other agricultural byproducts from its foods business. This process further reinforces PepsiCo's "Power of One" advantage by driving a strategic beverage innovation via a food-based solution.

Combining biological and chemical processes, PepsiCo has identified methods to create a molecular structure that is identical to petroleum-based polyethylene terephthalate (PET), which results in a



bottle that looks, feels and protects its product identically to existing PET beverage containers.

PepsiCo will pilot production of the new bottle in 2012.

Upon successful completion of the pilot, the company intends to move directly to full-scale commercialization.

## Marine science organization offering rides on research voyage

Environmentalists, researchers and adventure-seekers are being offered the rare opportunity to join one of the world's leading marine research organizations for its next high-seas expedition in search of plastic ocean pollution.

Algalita Marine Research Foundation, based in Long Beach, California, has 10 open spaces on this eco-adventure, a 20 day voyage from Honolulu, Hawaii to Vancouver, B.C. through the North Pacific Gyre. The July 7-27 trip, aboard a 72 foot racing sloop owned by Algalita's partner, Pangaea Explorations, will give participants a direct role in advancing research into one of our time's most pressing environmental concerns.

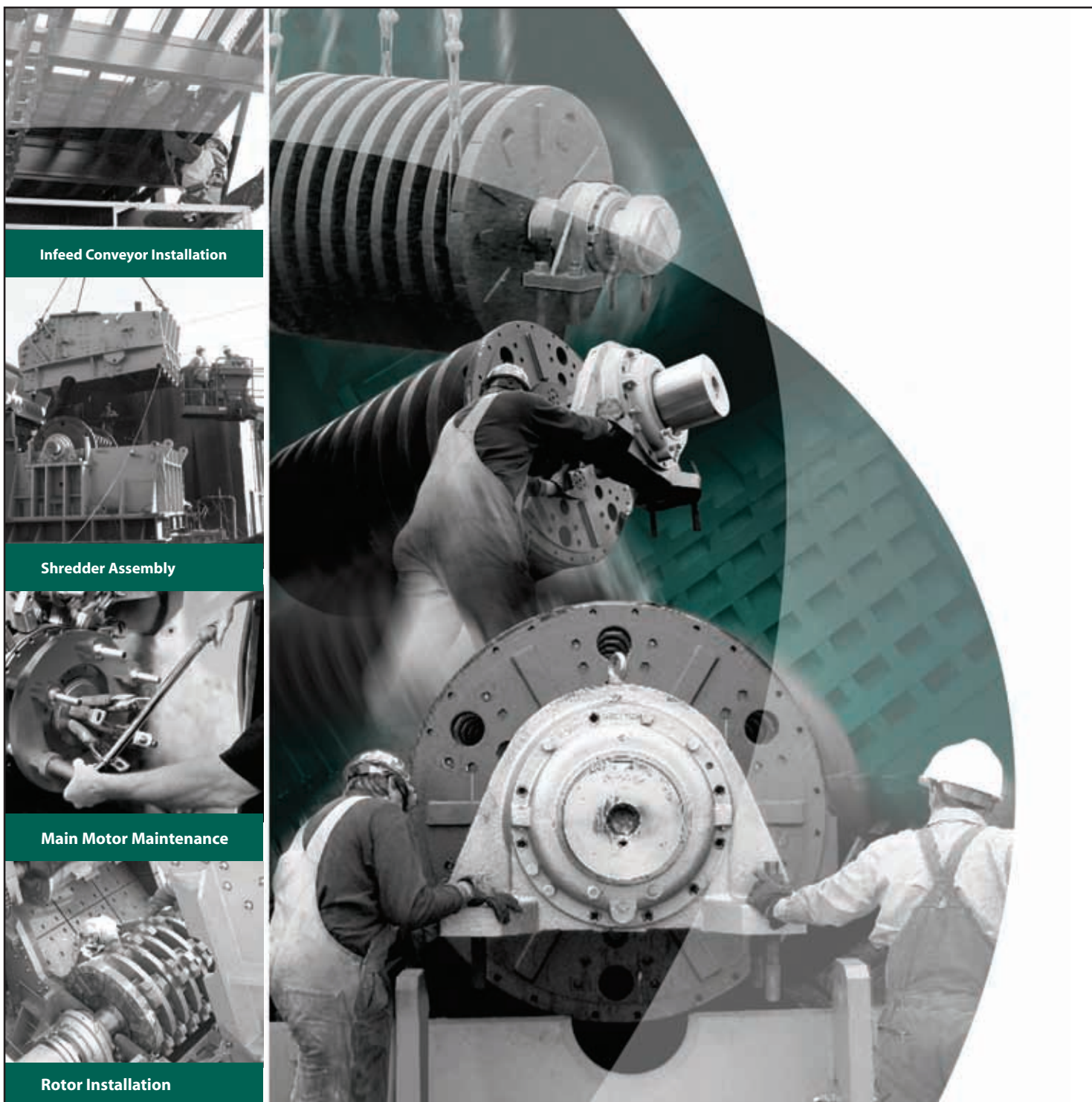
A gyre is a vortex of ocean currents where plastic debris accumulates. This detritus – cigarette lighters, bottle caps, toys – can kill seabirds and marine mammals that die of starvation, their bellies full of plastic mistaken for food. Smaller plastic pieces, which can act as magnets for carcinogens like DDT at sea, have been found in fish stomachs. On this voyage, Algalita will further its research into these issues.

"We'll be looking for changes in the accumulation of plastic in the North Pacific Gyre," says Marcus Eriksen, who will lead the trip's research as Algalita's director of project development.

Algalita started studying the North Pacific Gyre in 1999, when Founder Captain Charles Moore first put the plastic pollution issue on the map. A portion of the voyage's \$10,000 per-person fare is tax deductible. Net proceeds will help support Algalita's scientific research and educational outreach.

A total of only 14 people will be on board the ship, Sea Dragon, including 4 professional crewmembers. Paying participants will take part in all aspects of the expedition, from operating a trawl to collecting micro-plastic bits to hauling aboard larger items found thousands of miles off shore.

Participants will also help to sail and maintain the ship, stand watch during the night, even cook, as they voyage far from land for days. Teamwork is a must. Participants must also be able to lift one-third their body weight.



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## METALS

### Steel import permits down

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of February totaled 1,815,000 net tons (NT). This was a 13 percent decrease from the 2,081,000 permit tons recorded in January and an 11 percent decrease from the January preliminary imports total of 2,048,000 NT.

Import permit tonnage for finished steel in February was 1,368,000 NT, down 16 percent from the preliminary imports total of 1,632,000 NT in January but up 12 percent vs. February 2010 final imports. February 2011 total and finished steel import permit tons would annualize at 23,181,000 NT and 17,998,000 NT, down 3 percent and 5 percent, respectively, from the 23,929,000 NT and 18,857,000 NT imported in 2010.

In February, the largest finished steel import permit applications for offshore countries were for Korea (161,000 NT, down 25 percent from January), Japan (128,000 NT, up 2 percent), Germany (70,000 NT, down 11 percent) and Turkey (64,000 NT, up 168 percent). The estimated finished steel import market share in February was 18 percent.

Finished steel import permits for major products that registered large increases in February vs. the January preliminary include reinforcing bar (up 54 percent) and wire drawn (up 10 percent).

### Nucor breaks ground for new DRI Louisiana facility

Nucor Corporation has broken ground on its direct reduced iron (DRI) making facility that will be located in St. James Parish, Louisiana.

The company also indicated that Lester Hart has been named the general manager of the St. James Parish facility.

The company received its air permit from the Louisiana Department of Environmental Quality in January after meeting all of the requisite standards ensuring its facility will comply with state and federal environmental controls. Issuance of the air permit allowed the company to begin the process of ordering equipment, and the company will now commence construction.

Initially, Nucor will build one DRI plant, but has been permitted for the construction and operation of 2 plants with a combined annual DRI production of 5,500,000 tons.

Direct reduction technology converts natural gas and iron ore pellets into high

quality direct reduced iron used by Nucor's steel mills, along with recycled scrap, to produce numerous high quality steel products such as sheet, plate and special bar quality steel. The DRI facility is the first phase of a multi-phase plan that may include a coke plant, blast furnace, pellet plant and steel mill.

The project will create a substantial number of quality jobs. The project's first phase will create 150 permanent Nucor jobs that earn an average annual salary of \$75,000, plus benefits; approximately twice the median household income for that part of Louisiana. During peak construction, 500 jobs will be directly created. If the additional phases of the project are constructed, over time Nucor could have a total investment of over \$3 billion and increase permanent employment to more than 1,000. To date the company has invested over \$50 million to acquire approximately 4,000 acres of property on the Mississippi River for the facility.

### Metalico plans shredder facility

Metalico, Inc., a regional scrap metal recycler, has purchased a portion of the former Bethlehem Steel/Mittal complex in Western New York, including the abandoned galvanizing mill, from Great Lakes Industrial Development LLC, a Buffalo-based real estate investment group, as the site for a new shredder.

The 44-acre parcel includes a 177,500 square-foot building. Metalico plans to install a heavy-duty 80104 metal shredder inside the building, which will still provide ample additional space for other recycling activity. The location is appropriately zoned for the company's contemplated use and approvals are in place for outdoor storage and processing of scrap metals.

Metalico expects to produce 120,000 tons per year of high quality shredded steel scrap by combining feedstock generated from its own yards and material available for purchase in the region.

Metalico expects to make a capital investment of more than \$10 million for the acquisition of the property, plant and support equipment and related improvements for the shredder project. Metalico expects the new facility to generate 15 to 20 new permanent jobs in addition to construction and installation work. The company also plans to add two more scrap buying centers in the area to better supply the shredder and to be less reliant on traditionally more expensive third-party feedstock.

### ARCA to provide turnkey services

Appliance Recycling Centers of America, Inc. announced that Vermont Energy Investment Corporation has selected the company to be the provider of turnkey services for subscribing member utilities (SMUs) participating in Efficiency Smart's Appliance Recycling Initiative. The program began on January 3, 2011 and will run through December 31, 2013.

Through this program, participating SMU customers who turn in operating but energy inefficient secondary refrigerators and freezers will be eligible for a \$35 incentive for each qualifying appliance, with a maximum of three appliances per household. ARCA will perform the inhome collection of qualifying units and will recycle them according to regulations.

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# METALS

## Finished steel imports rise by 8 percent in January

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the United States imported a total of 2,048,000 net tons (NT) of steel in January, including 1,632,000 NT of finished steel (up 10 percent and 8 percent, respectively, from December final data). Finished steel import market share in January was an estimated 21 percent (same as in full-year 2010), up from 20 percent in December.

Key finished steel products with significant import increases in January

2011 compared to December are reinforcing bar (up 44 percent), wire rod (up 34 percent) and a variety of tubular products – including standard pipe, line pipe and oil country goods (up 38, 34 and 24 percent, respectively).

In January, the largest volumes of finished steel imports from offshore were from South Korea (213,000, up 9 percent), Japan (126,000 NT, up 23 percent), Germany (78,000 up 20 percent), Australia (74,000 NT, up 78 percent) and China (58,000, down 9 percent).

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

	JAN 2011	DEC 2010	201A Annual (est)	2010 Annual	% Change 2011 Annual vs. 2010
SOUTH KOREA	213	195	2,558	2,041	25.4%
JAPAN	126	102	1,509	1,325	13.9%
GERMANY	78	65	936	879	6.5%
AUSTRALIA	74	42	892	519	71.9%
CHINA	58	64	694	858	-19.2%
INDIA	47	27	569	713	-20.1%
TAIWAN	37	40	445	536	-16.9%
All Others	998	971	11,977	11,986	-0.1%
<b>TOTAL</b>	<b>1,632</b>	<b>1,505</b>	<b>19,581</b>	<b>18,857</b>	<b>3.8%</b>

## FeMET Initiative accepting proposals for 2011 grants

The American Iron and Steel Institute (AISI) and the Association for Iron & Steel Technology (AIST) Foundation's "Ferrous Metallurgy Education Today," or FeMET Initiative, which is aimed at attracting top scholastic talent to the North American steel industry, is now accepting design and curriculum development grant proposals for the 2011-2012 school year.

The FeMET Design Grant Program seeks innovative designs and solutions for industry-related issues. Student-professor teams are asked to address an important industry concern or "challenge" by working collaboratively. Proposals must include the team's approach/methodology, including a budget and schedule. Proposals will be judged based on: technical approach and relation to the theme, probability of success and its potential benefits, and team qualifications. The program may award a grant of up to \$50,000.

The theme for 2011 is "the recyclability of automobiles – past, present and future – i.e., the impact of advanced high-strength steels (AHSS) and embedded electronic components." Teams should quantify the benefits arising out of the proposed technique/s and the study. Teams may propose to perform one or more comparative studies, as long as they remain within the budget parameters outlined in the proposal instructions.

Completed proposals must be submitted electronically, via PDF, to manufacturing@steel.org by May 28, 2011. Awardees will be announced July 29, 2011.

FeMET Curriculum Development Grant proposals are being solicited from professors of ferrous metallurgy or materials science at North American universities for funding of a curriculum development assistant to enhance or update industry curriculum in ferrous

metallurgy programs. The program objective is to utilize students to assist in the editing and updating of textbooks and/or other course materials for use in ferrous metallurgy education, with an underlying objective to increase industry awareness within the academic community. The proposals must indicate how the professor will approach the task, including budget and schedule requirements.

Up to 5 university professors will be awarded \$5,000 each per year to fund initiatives designed to enhance or update industry curriculum in ferrous metallurgy programs. The maximum allowable time for a Curriculum Development Grant is 5 years, beginning in the fall of

2011, for a total of \$25,000 per grant. The number of awards depends on fund availability.

Proposals will be evaluated according to the following criteria: direct benefits to the iron and steel industry and the ferrous metallurgy/materials science programs in North America, the plan's potential to increase the number of students studying metallurgy and materials science in North America, and the expertise and capabilities of the professor to fulfill the program objective.

Completed proposals must be submitted electronically, via PDF, to lwharey@aist.org by May 28, 2011. Awardees will be announced July 29, 2011.

See more METALS NEWS in section B




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$347.00	\$338.00	\$374.00	\$395.00	\$460.00
#1 Bundles	per gross ton	345.00	335.00	363.00	390.00	463.00
Plate and Structural	per gross ton	380.00	335.00	345.00	397.00	432.00
#1 & 2 Mixed Steel	per gross ton	370.00	361.00	392.00	392.00	398.00
Shredder Bundles (tin)	per gross ton	325.00	361.00	325.00	288.00	323.00
Crushed Auto Bodies	per gross ton	325.00	361.00	325.00	288.00	323.00
Steel Turnings	per pound	179.00	219.00	209.00	237.00	300.00
#1 Copper	per pound	3.64	3.25	3.93	3.67	3.85
#2 Copper	per pound	3.47	3.08	3.70	3.52	3.69
Aluminum Cans	per pound	.65	.62	.81	.72	.87
Auto Radiators	per pound	2.08	1.75	2.10	2.00	2.21
Aluminum Core Radiators	per pound	.64	.62	.74	.68	.70
Heater Cores	per pound	1.30	1.40	1.75	1.87	1.93
Stainless Steel	per pound	.90	.90	1.05	1.09	1.15

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

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## ALTERNATIVE ENERGY

### Ameresco and Republic Services develop gas to energy plant

The Republic Services Vasco Road Landfill located in Livermore, California, will be home to a new 4.3 megawatt landfill gas-to-electricity plant that will be designed, built, owned and operated by Ameresco, Inc.

As part of this \$13 million project, Ameresco plans to capture the landfill gas generated at the Vasco Road Landfill and use it as fuel to generate power for homes and businesses in the Santa Clara and San Francisco Bay area. The project is scheduled to commence operations in late 2012.

Ameresco has entered into a 20-year Power Purchase Agreement with Silicon Valley Power, the City of Santa Clara's electric utility, for the power from the project. As part of California's Renewable Portfolio Standard, the state required retail sellers of electricity to serve 20 percent of their load with renewable energy by 2010. Now, all utilities must serve 33 percent of their load with renewable energy by 2020.

The Vasco Road Landfill, which is owned and operated by Republic Services, opened in 2001 and is one of the main recipients of refuse from residents and businesses in the North Livermore rural area. The landfill covers 323 acres of land and employs more than 14 area residents.

# Suntech Power sets new solar installation on the top of the world

Suntech Power Holdings Co., Ltd., a producer of solar panels, will develop a 10MW solar installation on the roof of the world that will generate decades of clean electricity for thousands of residents of the Tibetan Plateau.

Located in Chek Kang village in the Sangri County, Shannan Prefecture, Tibet, the solar power plant will be one of the highest on earth at around 4,000 meters above sea level. With target completion by the middle of the 2011, the facility will generate around 20,000 MWh of renewable electricity per year to help facilitate sustainable economic development in Tibet.

Historically, the mountainous region has relied heavily on hydroelectric resources for much of its baseload power production. However, shifting weather patterns in recent years have caused more frequent droughts and reduced water volumes in hydroelectric reservoirs. These changes have led to peak power shortages that are an impediment to the region's continued economic growth. The new 10 MW solar power plant will help to alleviate peak power shortages and serve as a strong complement to existing hydroelectric resources.

"With intense sunlight and cool temperatures, Tibet is extremely well-suited for the utilization of advanced



Mountaineers display a Suntech banner on Top of Mount Everest.

photovoltaic technology," said Dr. Zhen-grong Shi, Suntech's Founder, chairman and CEO.

Suntech has been active in rural electrification projects in Tibet. Over the last few years, Suntech has donated more than fifty independent solar systems for schools, community centers, and houses throughout the region. In 2008, Suntech installed a solar system at Mount Everest base camp to provide trekkers with clean

and reliable access to power. A team of mountaineers carried a Suntech flag to the very peak of the world.

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### Siemens Energy appoints Jim Jones director

Siemens Energy, Inc. announced the appointment of Jim Jones to the position of director, Wind Turbine Blade Manufacturing – Americas Region, effective March 16, 2011.

With more than 30 years of experience in manufacturing, service and repair operations, Jones will have overall responsibility for wind turbine blade manufacturing in the Americas region, which includes the Fort Madison, Iowa, and Tillsonburg, Ontario, Canada, operations. Jones and his family will be relocating to the Fort Madison area in the coming months.

A retiree of the United States Air Force, Jones has held positions of increasing responsibility in the aircraft and power generation industries. He first joined Siemens in 2001 at the Houston Service Center as the superintendent of quality assurance. In 2004, he was appointed plant operations manager, and in 2006, he was promoted to his current position as director, Houston Service Center.

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—Mary Pickford

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## ALTERNATIVE ENERGY

### INEOS Bio JV breaks ground on waste-to-fuel biorefinery

INEOS New Planet BioEnergy (INPB), a joint venture between INEOS Bio and New Planet Energy, broke ground on the first United States facility to produce advanced biofuels from waste on a commercial scale. The \$130 million Indian River BioEnergy Center in Vero Beach, Florida, will convert yard, vegetative and household wastes into cellulosic ethanol and renewable power for the local community. This new facility represents an important step towards achieving more sustainable transportation and greater energy independence.

When production starts in mid-2012, the Indian River BioEnergy Center will produce eight million gallons of bioethanol and six megawatts (gross) of renewable power, of which approximately two megawatts will be exported to the local community. This renewable electricity will be able to power approximately 1,400 homes. Located at a former citrus processing plant site in Vero

Beach, Florida, the BioEnergy Center will provide 380 direct and indirect jobs (including 175 construction jobs) over the next 2 years and 50 full-time jobs in Indian River County.

In addition to support from the State of Florida in the form of a \$2.5 million grant, the BioEnergy Center has received significant support from the United States government as part of its ongoing effort to reduce dependence on foreign oil, spur the creation of the domestic biorefining industry and provide new cleantech jobs throughout the country.

In late 2009, the project received a \$50 million grant from the Department of Energy as part of its Section 932 Integrated Biorefinery program and it will be the first large-scale commercial project awarded under this program to begin construction. More recently, the project received a conditional commitment for a \$75 million loan guarantee from the Department of Agriculture as part of its Biorefinery Assistance Program.

The Indian River BioEnergy Center will be the first commercial scale project in the world using INEOS Bio's patented technology. Using naturally occurring bacteria, the technology is able to convert gases derived directly from biomass into bioethanol. Unlike other technologies that rely on one primary source of feedstock, the INEOS Bio process can produce ethanol and renewable energy from numerous non-food feedstocks, including construction and municipal solid waste, forestry and agricultural waste. This flexibility also allows facilities like the Indian River BioEnergy Center to be built anywhere in the world, wherever there is waste, providing jobs and locally-sourced renewable energy for urban and rural communities.

### Cleantech Transit acquires interest in biomass project

Cleantech Transit, Inc. has signed a term sheet with Phoenix Energy, a manufacturer and distributor of biomass-generated power plants. Under the terms of the agreement, Cleantech has an option to acquire a 25 percent interest into Phoenix Energy's asset base, which includes a fully-constructed, 500 kilowatt biomass energy project located in California.

Phoenix Energy has developed a system that converts 100 percent recyclable agricultural and wood waste (biomass) into cleaner burning energy and other saleable byproducts. The construction phase of Phoenix Energy's first, one-half megawatt project is complete and is expected to become operational in the coming months. Cleantech will initially fund \$100,000 directly into Phoenix Energy. The required amount of funding to earn in the full 25 percent of the project will be determined following completion of a testing period by Phoenix Energy.

## RUBBER

### Liberty Tire has NASCAR going green at Daytona

Pittsburgh-based Liberty Tire Recycling is a primary sponsor of the MAKE Motorsports' #50 Chevy Silverado, which is operated by veteran driver T.J. Bell in the NASCAR Camping World Truck Series. As a provider of tire recycling services in North America, Liberty Tire Recycling has teamed up with MAKE Motorsports to spread the message of reclaim, reuse and recycle.

Each year, Liberty Tire Recycling transforms 110 million tires per year into recycled raw materials that not only keep those scrap tires out of America's waste stream, but also create useful, eco-friendly products that help create sustainable lifestyles. One of these



products, Pinnacle Rubber Mulch, creates safe playground surfaces around the country as well as durable mulch for landscaping.

Liberty Tire Recycling made its first appearance in the NASCAR Camping World Truck Series competition with MAKE Motorsports last season at Darlington Raceway in August 2010. Liberty Tire Recycling and the #50 Chevy Silverado returned for a second start at Texas Motor Speedway in November 2010, where driver T.J. Bell rallied to a 19th place finish.

### Rule preserves scrap tire markets

The United States Environmental Protection Agency (EPA) announced a rulemaking that will preserve scrap tire markets and ensure the success of scrap tire management advocacy by the Rubber Manufacturers Association (RMA).

The rule allows annually generated scrap tires that are removed from vehicles to be used as fuel by an industrial facility. Cement kilns, pulp and paper mills and electric utilities are the major users of tire derived fuel.

In its proposed rule, EPA recommended that annually generated tires be processed to remove the metal before being considered a fuel under the Clean

Air Act. However, that provision would have merely increased the energy consumption, air emissions and costs associated with delivering tire derived fuels to industrial customers without any environmental benefit.

RMA recognizes that EPA is still requiring processing of whole tires removed from historical scrap tire stockpiles. RMA continues to encourage EPA to consider a more expansive definition of processing to allow these whole tires to be combusted as tire derived fuel. RMA continues to evaluate the final rule for additional insights and impacts on the tire industry.

## Events Calendar

### April 3rd-5th

**Aluminum Association 2011 Spring Meeting.** Sanibel Harbour Marriott Resort & Spa, Fort Myers, Florida.  
703-358-2960 • www.aluminum.org

### April 5th-9th

**ISRI Annual Convention and Exposition.** Los Angeles Convention Center, Los Angeles, California.  
202-662-8544 • www.isri.convention.org

### April 19

**NERC's Spring Workshop.** Hotel Northampton, Northampton, Massachusetts.  
802-254-3636 • www.nerc.org

### April 27th-29th

**Carpet American Recovery Effort (CARE).** Annual Conference. Amelia Island Plantation, Amelia Island, Florida.  
706-428-2127 • www.carpetrecovery.org

### May 1st-4th

**Federation of New York Solid Waste Associations Solid Waste/Recycling Conference & Trade Show.** The Sagamore, Bolton Landing, New York.  
845-256-3141 • www.nyfederation.org

### May 9th-12th

**WasteExpo.** Dallas Convention Center, Dallas, Texas.  
800-927-5007 • www.wasteexpo.com

### June 6th-7th

**Northeast Recycling Conference and Expo.** Radisson, Manchester, New Hampshire.  
800-223-0150 • www.nrra.net

### June 21st-24th

**Air & Waste Management's 104th Annual Conference and Exhibition.** Disney's Coronado Springs Resort, Orlando, Florida.  
412-904-6003 • www.awma.org

### August 23rd-25th

**WASTECON 2011.** Gaylord Opryland, Nashville, Tennessee.  
240-494-2237 • www.wastecon.org

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## AUTOMOTIVE

# ARA wants anti Magnuson-Moss activity investigated

The Automotive Recyclers Association (ARA) again called on the United States Federal Trade Commission (FTC) to investigate possible violations of the Magnuson-Moss Act by automotive manufacturers. "Tying warranties to the use of new, authorized replacement parts is illegal under the Magnuson-Moss Act," said Michael E. Wilson, ARA's chief executive officer, adding that automakers' unfounded disparagement of recycled original equipment manufactured (OEM) parts is also a potential violation of the Lanham Act."

Late last year, for example, Chrysler released a position statement implying that recycled parts may have invisible defects due to environmental and human error factors and stated that, "Chrysler Group LLC does not approve of or recognize structural repair procedures where Authentic Mopar Parts are not used for Chrysler, Jeep®, Dodge and Ram vehicles," suggesting that consumers' warranties would be in doubt if parts other than authentic mopar parts were used. Similar statements have been released by American

Honda, Toyota Motor Sales, and Hyundai Motor America.

*The Act was introduced in 1975 in response to the widespread abuse by manufacturers of express warranties and disclaimers.*

In its letter, the ARA asked the chairman for additional action since the FTC's December 2010 consumer alert, "Auto Warranties, Routine Maintenance, and Repairs: Is Using the Dealer

a Must?" was helpful, but it did not specifically consider the issue of recycled OEM parts. "These potential violations of federal law that harm consumers, especially those least likely to be able to afford expensive replacement parts, need to be completely examined," said Wilson.

Over the past several months, ARA has reached out to the appropriate federal agencies highlighting activity that could be a violation of the Magnuson Moss Act and has yet to receive a satisfactory response from the federal government.

## SALVAGING Millions

by Ron Sturgeon  
Autosalvageconsultant.com

### The power of proactive PR backed by a professional web presence

I would like to share a story about an acquaintance who asked me for business advice. She runs a terrific family restaurant not far from my office. I'd like to see her business thrive, and it can.

She started doing press releases, but became discouraged because getting them out was time consuming. It was difficult to get the chef time to prepare the featured items and to get pictures to send out each month. I asked her to step back and consider why that was the case.

She and I concluded that she was doing the press releases in a reactive mode. What I mean by that is that she could have created an annual plan, gotten all of the supplies needed, and had her chef cook and take photos of a year's worth of featured items in a weekend.

It seems like a small difference, but doing public relations (PR) in an efficient way is the difference between getting attention and filling seats and just getting by, while telling yourself that you haven't got the time to get media coverage.

Are you doing PR for your business? Do you do it with an annual media plan? Do you follow a calendar so that you can work efficiently?

Make sure you are proactive, not reactive in your PR efforts. You can still add good opportunities to your PR calendar in response to events. One of the easiest ways for a local business to boost its web presence for its chosen key terms is to blog regularly and provide useful content that includes terms that searchers use to find that kind of business in the titles of the blog posts.

The other advice I gave her is to ensure that her website looked professional. A food critic considering reviewing the restaurant and a person

considering dining there probably gets their first impression from the restaurant's web site. You don't have to spend a lot to get a site that appeals to visitors.

If your site isn't meeting your expectations, you may be saving a few pennies, but you're costing yourself dollars in lost business and lost opportunities – the web is where things are happening today. Take a few minutes and review your website. Does it communicate what you want it to? Does it make the right impression on visitors? Does it make you want to visit and buy? And most important, can people find it with the key terms they are typing in? Too many folks view website development as a monthly expense, so never really get out of the chute. See it as a capital expense and devote some time to "birthing" your web presence correctly. Then work on monthly maintenance.

While you are evaluating the content of your website, consider ways that you can make your website more findable. If you will commit to improving your website, you may find that the Internet becomes the source of your best qualified leads and that cost of acquiring customers becomes a lot less than your less Internet-savvy competitors.

I would be happy to review your business website and give you an analysis of the issues that should be addressed. If you are planning to redesign your website, I offer a brief two-hour consultation for small business owners who want to get the most out of working with web designers. Web designers aren't likely to understand your business strategy, and you may want help to make sure that you get the most for your money, so I can bridge that gap.

**Remember, only you can make BUSINESS GREAT!**

*This article was provided by autosalvageconsultant.com, which was formed in 2001 by recyclers for recyclers, to help them improve their businesses.*

## Camerota Truck Parts named Heavy Duty Remanufacturer of the Year

The Heavy Duty Remanufacturing Group (HDRG) of the Automotive Parts Remanufacturers Association (APRA) awarded Camerota Truck Parts its prestigious "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 Camerota Truck Parts of Enfield, Connecticut this year's 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.

Camerota Truck Parts celebrated their 50th anniversary in 2010 and was started by Salvatore "Sam" Camerota (father of the current owners – Frank, Salvatore and Stephen).

With headquarters in Enfield, Connecticut, other facilities are in North Haven, Connecticut; Westborough, Massachusetts; Bow, New Hampshire; Bangor, Maine; Valley Cottage, New York, and Hamilton, New Jersey.

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## AUTOMOTIVE

# LKQ Corporation achieves record results for 2010

LKQ Corporation announced results for its fourth quarter and full year ended December 31, 2010. Income from continuing operations for the fourth quarter was \$41.3 million and diluted earnings per share from continuing operations was \$0.28. For the full year, income from continuing operations was \$167.1 million and diluted earnings per share from continuing operations was \$1.15.

For the fourth quarter of 2010, revenue was \$674 million compared with \$556 million for the fourth quarter of 2009, an increase of 21.3 percent. Income from continuing operations for the quarter was \$41.3 million compared with \$36.5 million in the prior year, an increase of 13.2 percent. The results of the fourth quarter of 2009 included an after tax gain on bargain purchase of \$4.3 million.

For the full year of 2010, revenue was \$2.47 billion compared with \$2.05 billion for the full year of 2009, an increase of 20.6 percent. Income from continuing operations for the full year was \$167.1 million compared with \$127.1 million for the prior year, an increase of 31.4 percent. Income from

continuing operations for the full year included \$0.7 million, or \$0.4 million after tax, of restructuring expenses compared to \$2.6 million, or \$1.6 million after tax, for the prior year. The results of 2009 also included an after tax gain on bargain purchase of \$4.3 million.

During the fourth quarter of 2010, LKQ acquired a total of eight businesses including a wholesale recycled products business in Arkansas and a self serve business with two facilities in southern California. These acquisitions were in addition to the previously announced fourth quarter acquisitions of Cross Canada, PROformance Power Train, SPI Distribution, Best Bumper, a wholesale recycling business in Virginia, and a self service recycling operation in Colorado. Since the beginning of 2011, the Company has completed four additional acquisitions including ATK Vege, an engine remanufacturing business headquartered in Texas; an aftermarket distributor of heating and cooling products located in the Midwest; a heavy duty truck recycling business located in Texas; and a recycled parts business in Milwaukee, Wisconsin.

## Ford offers contest on facebook

Whether you're unplugging electronics when not in use, using canvas bags instead of plastic or collecting rain water, Ford wants to know what changes consumers are making to better the environment. It's all part of Ford's new "Take Charge" contest on its Electrified Vehicle

Facebook page, which runs through mid-April.

Fans can accumulate badges for attaining 10, 50 and 100 votes for their submissions. As a way of showing off their accomplishments, they can share these badges with their social network.

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## BUSINESS BRIEFS

### Allen Perko named Paladin territory manager

Paladin Construction Group has appointed Allen Perko to the position of heavy construction territory manager, covering the southeast United States. He will work closely with all sales personnel in Paladin Construction Group and participate in its efforts to manage and administer sales activities for its JRB, CP and CustomWorks Brands. Perko will provide a strong support system for customers through education and by helping contractors easily find the dealers that offer the attachments they need.

Perko has an extensive background in heavy equipment, working for 25 years in the industry, most recently with Power Equipment Company. He will be responsible for Paladin's sales in the southeast territory of the United States, which includes: Alabama, Florida, Georgia, North Carolina, South Carolina and Tennessee.

### Copart, Inc. acquires Barodge Auto Pool

Copart, Inc. has acquired Barodge Auto Pool, Inc., a privately-held automotive auction company located in Hartford City, Indiana. The acquisition expands Copart's presence to suppliers in Indiana as well as customers in western Ohio, southern Michigan and eastern Illinois.

Founded in 1991, Barodge Auto Pool's weekly auctions include insurance and wholesaler inventories, including damaged, salvage and theft-recovery units.

### Universal announces bar base price increases

Universal Stainless & Alloy Products, Inc. announced a base price increase of 5 percent on all stainless and low alloy grade bar products manufactured at its Bridgeville and Dunkirk facilities. The increase was effective for all new orders entered March 1, 2011. Current material and energy surcharges will remain in effect.

### Brookfield increases property in New York

Brookfield Resource Management, a recycling company serving the New York and Chicago metropolitan markets, announced the purchase of an additional 10 acres of property in Wawayanda, New York, where the company plans to build a regional recycling facility, which would include a scrap metal shredder operation.

"The additional 10 acres complements the 38 acres we already own in Wawayanda and will enhance the integration of our proposed recycling facility into the local community," said Tom Malone, president of Brookfield Resource Management.

Brookfield's property along Dolson-town Road is zoned for mixed commercial uses that would permit the recycling plant. Brookfield currently is seeking the necessary permits for its proposed facility.

The company hopes to secure necessary approvals and begin construction during 2011.

### Fornal appointed manager of environmental programs

Pittsburgh-based Liberty Tire Recycling announced the promotion of Angela Fornal to manager of environmental programs. In her new role with Liberty Tire, Fornal will develop and support programs to help the company continue to operate its business in an environmentally responsible manner.

Prior to joining Liberty Tire Recycling, Fornal worked as a project scientist in the waste divisions of the engineering consulting firms Malcolm Pirnie, Inc., in New Jersey and Virginia; and Blasland, Bouck and Lee, Inc. in Pittsburgh. In these roles, Fornal conducted environmental site assessments, investigations and remedial design projects at hazardous waste sites and environmental compliance assessments and audits for commercial and industrial clients.

As a student at the Pennsylvania State University, Fornal worked for the university's Environmental Health and Safety Department implementing chemicals management and disposal practices in the laboratories. She also interned with the Pennsylvania Department of Environmental Protection for several years in the air quality division.

### Genset Services dealer of Doosan generators

Doosan Portable Power has named Genset Services Inc. of Pompano Beach, Fla., an authorized dealer of its full line of mobile generators for southern Florida.

Genset Services is a full-service company providing sales, parts, repair and rental of standby and mobile power generation systems for various applications, ranging from 7 to 9,000 kW. To support the need to enhance its mobile power system offerings, the dealership added to its fleet the full line of mobile generators, ranging from 25 kVA to 570 kVA from Doosan Portable Power.

Genset Services has been in the business since 2003. The dealership serves the state of Florida out of its South Florida headquarters and a branch location in Apopka, Florida.

### Veolia ES Solid Waste acquires Milo Sanitation

Veolia ES Solid Waste, Inc. has acquired all the business assets of Milo Sanitation, based in Valdosta, Georgia. The acquisition will expand Veolia's hauling operations in Valdosta, adding 4,000 residential customers and 60 commercial accounts to the existing system.

All drivers and other employees of Milo Sanitation have been offered positions as part of the acquisition negotiations. The waste collected will be internalized at the Veolia ES Evergreen Landfill in Valdosta, Georgia.

Details of the transaction were not disclosed.

### RecycleBank expands into Twin Falls, Idaho

RecycleBank, in a partnership with PSI Environmental Services, Inc., announced that it is now operating in Twin Falls, Idaho. Twin Falls is the first city in Idaho to implement RecycleBank – a program that motivates people to take greener actions, such as home recycling, by rewarding them with points that are redeemable for rewards from local and national retailers, restaurants, pharmacies, grocers, and more.

Idaho marks RecycleBank's 29th state.

### Ben Weitsman acquires Brenner Recycling

Upstate Shredding - Ben Weitsman & Son announced a purchase agreement to acquire Brenner Recycling, Inc., a retail scrap metal and recycling company located in Hazelton, Pennsylvania. The all cash transaction was scheduled for closing on April 1. Key Brenner executives and all employees will continue in their positions.

Brenner is a third-generation, family owned business in operation since 1925. It grew from a used auto parts yard to become the largest scrap metal, paper and cardboard recycler in the greater Hazelton area, which is approximately a two-hour drive from Philadelphia and New York City.

### PCI Equipment newest Bandit Industries dealer

Bandit Industries of Remus, Michigan welcomed PCI Waste & Recycling Equipment of Portland, Oregon as the latest addition to their family of Bandit dealers. Serving the entire Pacific Northwest including Washington, Oregon and Idaho, PCI's full line of industrial refuse and recycling equipment will be a perfect home for Bandit's comprehensive offering of chippers and stump grinders.

### Greenstar and Waste Pro reach strategic agreement

Greenstar Recycling and Waste Pro USA have reached a strategic agreement in the Atlanta area. Under the terms of the agreement, Waste Pro will receive recycling processing equipment and Greenstar will provide marketing of recovered commodities from Waste Pro's Atlanta recycling facility. The agreement also includes Greenstar responsibility for marketing additional Waste Pro recyclable commodities throughout its business footprint in the South.

Greenstar provides material marketing services, also known as commodity trading or brokerage, for small and large volume customers throughout North America. This includes selling recyclables on behalf of Greenstar and other recyclers that have been recovered from the local community, separated and prepared for shipment to end users both domestically and internationally.

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## BUSINESS BRIEFS

### Metalico names Drury, Mueller to senior posts

■ Metalico, Inc. has hired veteran scrap executive Kenneth P. Mueller to oversee its conventional scrap metal recycling operations while formalizing new duties for Michael J. Drury in its platinum group metals (PGM) and lead fabricating activities.

Mueller joins the company as its senior vice president and chief operating officer of ferrous and nonferrous scrap metal recycling. Drury, a longtime Metalico executive vice president, will serve as chief operating officer for its PGM and lead operations.

Mueller began his recycling career in 1976 with Luria Bros. in Peoria, Illinois. He has held numerous commercial and operations management positions over the years with Luria Bros., The Snyder Group in Pittsburgh, Columbia Iron and Metal in Cleveland, and Cozzi Iron and Metal, in both Chicago and Pittsburgh. In 1997, Mueller relocated to Phoenix as president of Metal Management Arizona. Most recently he was western regional president of Sims Metal Management based in Phoenix.

Drury has been an executive vice president since Metalico's founding in 1997. He has worked closely with the company's lead fabricating segment throughout its history and its PGM business since Metalico entered that business in 2007.

Drury will continue to work out of the company's corporate offices in Cranford, New Jersey. Mueller will be based in Pittsburgh as he supervises operations in western Pennsylvania following the recent departures of James and Daniel Snyder from the Company.

### Tubelite hires Tom Minnon as sales manager

■ Tubelite Inc. has named Tom Minnon as eastern region sales manager of the company's architectural aluminum products, serving clients from Maine to Georgia. With nearly four decades of industry experience and many professional accreditations, Minnon regularly provides educational and consultative support to architects, buildings owners and glazing contractors.

Minnon's experience in the fenestration industry includes architectural sales in natural daylighting applications, high-performance glazing, solar energy design and architectural aluminum glazing systems with Kalwall Corporation, Kawneer Company and YKK AP.

Minnon currently serves as chairperson on the Town Council's Energy and Environmental Advisory Committee.

### Electronics recycler expands facility in Texas

■ Round2, Inc., an eRecycling service provider, announced that it has expanded its current processing facility in Coppell, Texas from 116,000 square feet to 174,000 square feet. The additional space will be a high-security, high-touch operation for receiving, processing, testing, and repairing end-of-lease and retired IT assets. Round2 has experienced significant growth in both its Enterprise Solutions group and Lease Returns group necessitating the growth in space and headcount. Round2 expects to add 52 additional technical staff members over the next 9 months to meet demand for these services.

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### NEW CASE F SERIES WHEEL LOADERS BOOST FUEL ECONOMY

Case Construction Equipment introduced three new F Series wheel loader models that provide faster acceleration, quicker cycle times and higher travel speeds. The Case F Series wheel loaders use selective catalytic reduction technology to meet Tier 4 Interim emissions standards while also delivering increased power and improved fuel efficiency.

The Case 721F, 821F and 921F wheel loaders feature a 6.7-liter Tier 4 Interim-certified engine, rated at 179, 211 and 242 hp, respectively. A new optional, five-speed transmission with open-differential axles and advanced system programming provides more fuel savings.



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### FLIP SCREEN OFFERS EX80 ATTACHMENT FOR EXCAVATORS

Flip Screen Australia Pty Ltd. introduces the EX80 screening bucket attachment, durable enough to stand up to demanding industries including roadbuilding, construction, demolition, landfill, railway, and waste and recycling. Suitable for 20 to 27 ton excavators, the EX80 replaces the excavator's bucket and works by rotating on a horizontal axis continuously through 360 degrees.

Including its mesh screen, the EX80 weighs in at 4,650 lbs. The unit features a bucket opening 47" wide by 24" high, and has a capacity of approximately 1 cubic yard.



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**Businesses**

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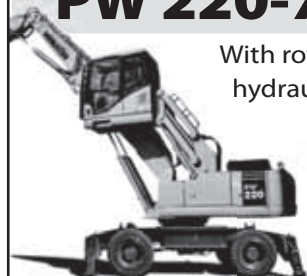
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**2002 A924B MH** with Hyd Elev Cab, MH Boom & Stick, 15 Kw Gen, 5-Tine Liebherr Grpl, SN: 4267 **\$159,000**  
**2002 A924B MH** with Hyd Elev Cab, MH Boom & Stick, 15 Kw Generator, 5-Tine Liebherr Grpl, SN: 4266 **\$159,000**  
**2004 R924B HDSL** with Hyd Elev Cab, MH Boom & Stick, 5-Tine Liebherr Grpl, New 15 Kw Gen, SN: 3028 **\$179,500**  
**2004 A934B HD MH** with Hyd Elev Cab, Cab Guard, FOPS Guard, Industrial Boom & Stick, 5-Tine Liebherr Grpl, 20 Kw Generator, SN: 0961 **\$219,000**  
**2005 A934B HD MH** with Hyd Elev Cab, FOPS Guard, Industrial Boom & Stick, 5-Tine Grpl, New 20 Kw Gen, SN: 2284 **\$219,000**  
**2006 A934C MH** with Hyd Elev Cab, MH Boom & Stick, 5-Tine Grpl, New 20 Kw Gen, SN: 8362 **\$229,000**  
**2005 R934B EW MH** with Fixed Elev Cab, Front Cab Guard, FOPS Guard, MH Boom & Stick, 17.5 Kw Gen, SN: 6062 **\$179,000**  
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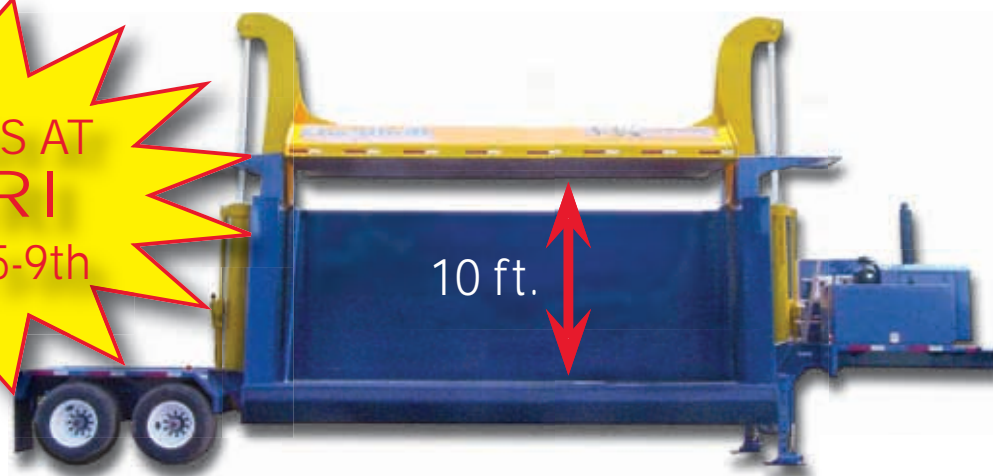
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# New regulations combat increased metal theft

by MIKE BRESLIN

mbreslin@americanrecycler.com

On Valentine's Day, TV news reported that drainage grates were disappearing from the streets and parking lots in Clifton, New Jersey. Bronze plaques were also pried off war memorials. Gaps in the pavement created dangerous pedestrian hazards and the desecration of the memorials was heartbreaking for the community. Police attributed it to metal thieves and suggested that the culprits may be methamphetamine addicts looking to pay for a quick fix. Law enforcement experts believe that the majority of the thefts are crimes of opportunity rather than anything organized.

In a tough economy, however, and with the rising prices of scrap metals, random crimes of opportunity are aggravating the metal theft situation.

Unfortunately, increased metal thefts are happening at a time when state and municipal budgets are being stretched to pay for essential services. It also comes when hiring freezes and cuts in law enforcement are being imposed. The reality is that in many jurisdictions, more serious crimes take higher priority.

Gary Bush, the national law enforcement liaison director of material theft prevention at Institute of Scrap Recycling Industries (ISRI), spent 33 years in Florida law enforcement as a patrol officer, sergeant and field training supervisor.

In his last years in Florida, he was a metal theft investigator. In October, 2008 Bush joined ISRI. Today he oversees ScrapTheftAlert.com, ISRI's web-based system that helps members and law



Many gas and electric utilities, as well as telecommunications companies, have stepped up their anti-theft programs by establishing hotlines, upping rewards for reporting crimes and increasing electronic and human surveillance.

enforcement catch thieves, recover materials and return them to the rightful owner.

"I handle most of the day to day operations for the system for the United States and Canada, approving alerts issued by recyclers and other stakeholders, vetting new officers into the system, and providing guidance to those using it. I've also developed an outreach plan, conducting workshops to help law enforcement and recyclers learn how we can help each other in combating metal theft."

ScrapTheftAlert.com was established in mid-December 2008 as a modern version of ISRI's original Fax Net System that dates back to the late 1970s.

"Today, the economy is struggling, people are out of work, and many are desperate. Many see metal theft as a way of turning a fast buck," said Bush.

Here is how ScrapTheftAlert.com works: By registering at the website, a user can post alerts to the scrap industry of thefts of materials in the United States and

Canada. Upon a validation and review of the post, an alert is sent by email to all subscribers within a 100-mile radius of where the incident occurred. The system is zip-code based, so depending on the circumstance, the radius can be increased. An alert arrives in the recipient's mailbox in minutes.

Besides descriptions of material stolen and the perpetrators, users can also upload up to four photos as evidence with

See METAL THEFTS, Page 6

## Chinese boron-added plate subject to antidumping order

The Department of Commerce has issued an affirmative preliminary circumvention ruling determining that Chinese imports of cut-to-length carbon steel (CTL) plate that include economically and metallurgically insignificant amounts of boron are subject to the antidumping duty order on CTL plate.

Last year, Nucor Corporation and other domestic plate producers presented the Department of Commerce with compelling evidence that Chinese CTL

plate with small amounts of boron added is being produced, marketed and sold to United States customers as a means to avoid paying antidumping duties. After completing its preliminary investigation, the Department of Commerce found that the boron-added CTL plate has virtually the same physical characteristics, uses and production process as CTL plate without boron. Therefore, Chinese CTL plate imports including minor amounts of boron will now be held subject to the

antidumping duty order. Notably, the Department of Commerce's decision applies to all boron-added Chinese CTL plate imports – regardless of producer, exporter or importer.

"For years, Chinese producers have added boron to their CTL plate products as a means to fraudulently evade the antidumping duty order on CTL plate," said Dan DiMicco, chairman and CEO of Nucor. "This was a straightforward case of circumvention, and we're

pleased that the Commerce Department is closing this loophole and effectively enforcing trade laws."

As a result of the ruling, The Department of Commerce has ordered Customs and Border Protection (CBP) to suspend liquidation of any Chinese boron-added plate imported since April 2010, when the investigation began. CBP will also require cash deposits of estimated duties on all Chinese boron-

See CHINESE STEEL, Page 3

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## A Letter from the Editor

Readers,

March was a sobering month. Japan was ravaged by a massive earthquake and tsunami. The global community will be dealing with the fallout from the failed Japanese reactors for years to come. And if that were not news enough, America has taken an active military role in the Libyan conflict.

It's too early to know for sure how everything will shake out, but permit me to speculate for a moment. Early estimates out of Japan indicate that it is likely to cost over \$300 billion to rebuild and repair the damage caused by the massive quake and subsequent tsunami. I think it's fair to assume that such a massive rebuilding effort will entail greatly increased Japanese demand for imported construction materials.

Additionally, because of the Japanese reactor failures, there is a very real concern that the scrap material that Japan would normally export is now irradiated. Rather than deal with potentially radioactive scrap, many of the Pacific Rim countries that normally imported from Japan will likely seek their material elsewhere, further raising demand for American scrap and metal products.

And finally, if the United States' role in Libya continues for any significant amount of time, the demand for metal to manufacture the machines of war and to keep them fed will also drive up the demand for scrap material. Munitions must be manufactured, and missiles replaced.

My predictions may or may not come to pass, but I don't believe that they are entirely farfetched. For those of you in the metals business, I'd be very interested to hear your take on the current global situation, and whether or not you're taking steps to capitalize on the potential for increased demand. Are you buying additional processing equipment? Ramping up scrap purchases? Hiring additional hands? Write or call, and fill me in on what the recent news from abroad means for you.

Business may be booming, but that's small consolation for the multitudes facing personal tragedies. Hopefully the month of April brings stability to those affected by recent events.

Until next month,



Dave Fournier  
Focus Section Editor  
david@americanrecycler.com

## Strategic Alliance for Steel Fuel Tanks discusses lightweight fuel tanks

To demonstrate effective, low mass designs for steel-intensive fuel tanks of future vehicles, representatives from the Strategic Alliance for Steel Fuel Tanks (SASFT) presented "An Approach for Developing Lightweight Steel Tanks for Advanced Hybrid Electric Vehicles" at the ITB Group's Automotive Energy Storage and Fuel Systems conference in Novi, Michigan.

David Anderson of the Steel Market Development Institute, and Danet Surytama of EDAG Inc., discussed the benefits of steel fuel tanks and the design optimization methodology used to support the global lightweighting project called FutureSteelVehicle (FSV), a WorldAutoSteel program. FSV aims to

develop lightweight advanced high-strength steel (AHSS) body structures to reduce emissions over the total vehicle life cycle. The FSV project will officially release fully engineered, steel-intensive designs of battery-electric and plug-in hybrid-electric vehicle designs in May 2011 to demonstrate steel's environmental benefits.

"Steel fuel tanks provide cost-effective, lightweight, zero emissions solutions for advanced hybrid vehicles," Anderson said. "According to results of the SASFT project, AHSS reduces the mass and thickness of steel tanks of plug-in hybrid electric vehicles, while also providing the necessary rigidity to handle the pressure-vacuum require-

ments of today's standards. For pressurized fuel tank applications, steel's superior strength, stiffness and design flexibility are unmatched by any other fuel tank material."

The two-day ITB event featured technologies to meet LEV III requirements with alcohol containing fuels, fuel tanks, lines and vapor management systems. Other conference highlights included legislative developments and alternative energy storage systems for renewable fuels, electricity and hydrogen.

In addition to presenting at the conference, SASFT highlighted benefits of the Chevrolet Volt and Toyota Highlander steel fuel tanks at its exhibit.

## D.C. partners with PepsiCo Dream Machine

PepsiCo announced a partnership with the DowntownDC Business Improvement District (BID) and the District Department of Public Works (DPW) that will make Washington, D.C. the nation's first city to partner with the Dream Machine recycling initiative. A total of 363 recycling bins will be placed throughout the DowntownDC BID area, offering a convenient and rewarding recycling option for people while they are on-the-go and advancing the BID's Greening Downtown DC initiative.

PepsiCo's Dream Machine recycling initiative, which aims to place both

interactive kiosks and bins, was created in partnership with Waste Management and Keep America Beautiful.

With approximately 1,500 Dream Machines located in more than 20 states to date, the program aims to increase the United States beverage container recycling rate from 34 to 50 percent by 2018.

"This latest public-private partnership achieves the BID goal of providing citywide approaches to environmental issues while enhancing the quality of the visitor experience Downtown," said Richard H. Bradley, executive director of the DowntownDC BID. "This partnership will have real results. We are projecting a diversion of more than one million pounds of recyclable material annually from Downtown waste."

The DowntownDC BID's safety/hospitality and maintenance workers, known as SAMs, will be responsible for maintaining the bins and serving as on-the-street liaisons who educate people about public recycling and the Dream Machine program.

For all the bottles and cans recycled in a Dream Machine bin or kiosk in Washington, D.C., and across the



A total of 363 of the Dream Machine bins will be placed throughout the downtown D.C. area.

nation, PepsiCo will make a contribution to the Entrepreneurship Bootcamp for Veterans with Disabilities (EBV), a national program offering free, experiential training in entrepreneurship and small business management to post-9/11 United States veterans with disabilities.

### Upcoming Section B editorial focus topics

ISSUE	CLOSE	FOCUS
MAY	04/18	Solid Waste
JUN	05/17	Alt. Energy
JUL	06/17	Municipalities
AUG	07/18	Solid Waste
SEP	08/15	Auto Recycling

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# ISRI launches online Superfund report reservation system

The Institute of Scrap Recycling Industries (ISRI) launched a new online, automated Superfund Recycling Equity Act (SREA) report system to assist ISRI members in reserving and obtaining the necessary reports that help them to be exempted from Superfund liability.

ISRI members can make reservations for, and obtain, SREA reports through a web-based form ISRI is offering through its SREA Reasonable Care Compliance Program.

ISRI successfully worked in 1999 with Congress to obtain an exemption for recyclers from Superfund liability, but that exemption is not automatic. The 1999 law requires recyclers to conduct due diligence demonstrating that they checked to make sure their customers are in compliance with applicable environmental laws and regulations prior to shipment of recyclable materials to these customers.

ISRI president Robin Wiener noted that while due diligence reports can cost upwards of several thousand dollars if done individually, ISRI has contracted with URS, an environmental consulting firm, to provide these reports at a substantial discount. ISRI is in turn offering ISRI members the opportunity to reserve and receive their reports for a handling charge of \$12. However, due to budget restrictions, ISRI can provide only a limited number of unique SREA due-diligence reports at the reduced rate. The terms of the program may be found at [www.isri.org/srea](http://www.isri.org/srea).

"ISRI is working to ensure that our members save money and time and protect themselves through this important program," Wiener said. "The ISRI board believes that helping members protect themselves is a critical role for ISRI, and that is why it has approved several hundred thousand dollars of ISRI's

budget to be used for the purchase of these reports and decided to only pass on a minimal handling charge per report to its members. I strongly encourage our members to take advantage of this system that is easy to use, a potentially significant money saver and hard to pass up."

ISRI has scheduled a workshop on SREA issues at its annual convention and exposition, one of the world's largest meetings of scrap recycling professionals. The workshop is scheduled for April 7 and will focus on how recyclers can better understand their responsibilities and the tools that ISRI provides to help meet SREA's due-diligence requirements. The session will be led by the URS senior reviewer in charge of the overall SREA program.

"At our company, we feel it is extremely important to protect our future. By completing the SREA due

diligence, we are doing our best to avoid a costly mistake down the road," said Matt Kripke of Kripke Enterprises. "Requesting the reports from ISRI allows us to take advantage of economies of scale and pay only a fraction of what it would cost us to order the data on our own," concluded Kripke.

ISRI's SREA report system began accepting report reservations from qualified recyclers on March 16, and will continue to do so through April 30.

Members should make their reservations by the April 30 deadline. The program is currently budgeted to cover reports on approximately 1,400 different consuming facilities. If necessary, ISRI will prioritize reports based on a computer algorithm that takes into account demand for each consuming facility and other criteria.

## Severstal sells several facilities

Severstal North America, a subsidiary of OAO Severstal, announced that The Renco Group, Inc. has signed a definitive agreement to purchase Severstal's operations at Warren, Ohio, Wheeling, West Virginia, and Sparrows Point, Maryland. The transaction was expected to close in March 2011, and was subject to customary closing conditions, including expiration or early termination of the Hart-Scott-Rodino waiting period.

As transaction consideration, Severstal will receive \$125 million in cash, a \$100 million secured note, and the repayment of \$317 million of third-party debt at closing. Renco will also assume various

Severstal financial liabilities including employee-related and environmental liabilities totaling \$650 million.

The Renco Group, Inc. is a family owned, private holding company that makes long term investments in companies across a range of industries including mining, mineral recovery, metals production/fabrication, defense and automotive supply industries.

Evercore Partners and Raymond James and Associates, Inc. are acting as Severstal's financial advisers, and Skadden, Arps, Slate, Meagher & Flom LLP is acting as Severstal's legal adviser.

## Novelis sells UK foil business

Novelis announced that it has sold its printed confectionery foil packaging business at Bridgnorth, UK to Discovery Foils effective immediately. Approximately 105 employees will transfer to Discovery Foils along with the assets of the business. Novelis will provide aluminum foil to the operation under a supply agreement.

Pierre Labat, general manager of Novelis Europe's packaging and converted products business, said, "Whereas multi-color printing is not a core activity for Novelis, it is a good strategic fit for

the owners of Discovery Foils who have other interests in the printing and packaging business."

Novelis is closing its Bridgnorth foil rolling and laminating operations and will consolidate most of the business into its other European operations. The move will improve the competitiveness of the company's European foil and packaging production systems in response to overcapacity and increased competition from manufacturers in low-cost countries. The decision will impact approximately 200 employees.

## Chinese steel

Continued from Page 1

added plate. The current China-wide antidumping duty rate on plate is 128.59 percent. Commerce has also asked all interested parties to submit briefs on the subject within 20 days, before proceeding to a final determination.

United States law authorizes The Department of Commerce to include products altered in minor respects within the scope of an antidumping duty order to prevent circumvention of that order.

With respect to the antidumping duty order on Chinese CTL plate, the addition of only 0.0008 percent boron to the CTL plate converts carbon steel into an "alloy" steel under the Harmonized Tariff Schedule, and so Chinese producers and importers have used this provision to trade and evade the antidumping order for many years. However, as the Commerce Department has now confirmed, the boron-added CTL plate, without special processing and heat treatment, has the same physical characteristics and uses as the subject CTL plate.

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# EQUIPMENT SPOTLIGHT

## Container Loaders

by MARY M. COX

maryc@americanrecycler.com

In the past, many scrap metal exporters loaded shipping containers horizontally – with Bobcats, conveyers and other techniques that could not achieve maximum volume or weight loads. Not only were these techniques slow and often hazardous, it was also difficult for companies to accurately weigh their containers during loading. This would often result in scrap metal recyclers exporting less than maximum weight in a 20 foot container, or recyclers using a 40 foot container to



A-Ward Attachments, Ltd.

achieve maximum weight. Because of the difficulties inherent in horizontal loading, a number of new systems have been developed to facilitate faster loading of shipping containers.

Simon Ward, founder of A-Ward Attachments, said that his firm identified the need for more efficient container loading systems in 2005, following more than 10 years' experience in designing and manufacturing specialized excavator attachments for the recycling industry. Ward said, "A-Ward has always been 'customer wired' – we have been closely involved with bulk materials handling businesses around the world for many years. Our customers regularly face new operational challenges but they know they can rely on A-Ward to devise the right solutions for their evolving needs."

In 2006, after conferring with scrap metal customers and 18 months of product development, A-Ward launched their patented container tilter system. Now, A-Ward sells an average of 20 container tilters per year in North America. Tilters are manufactured in Savannah, Georgia

and there are over 100 tilters in use across the country.

When discussing the advantages of his product, Ward said, "Our tilters are completely portable, approximately half the price of many horizontal container loaders, and by loading at an angle, our tilters enable 100 percent of the container's volume to be filled. Also, A-Ward's new container rear brace option eliminates damage to the shipping container.

"The ACT20R-US Container Tilter model was specifically designed to suit North American trailer units. This means that trucks reverse into the container tilter with the container doors facing the rear of the container. An IP68 Digital Weigh System was developed with weight display on the power pack and on the hand-held remote control. The accuracy of our weigh system is currently plus or minus one percent," Ward said.

Four power pack options are now available; including 15 KW and 30 KW options in either diesel or electric motors, and A-Ward's transport kit option was recently launched. The kit enables customers to easily condense a container tilter for easy transport to different yards.

A-Ward processing volume, according to customers, is over 1,100 tons of scrap per day for each container tilter. This is based on a 10 hour shift and 28 ton loads in each container. Tilters can be operated by a single operator via a remote control and provide 15 minute turnaround from the time an empty container arrives on site, until a full container leaves the site on a trailer. Each tilter weighs approximately 10 tons and can be delivered 4 weeks from order date.

"The uniqueness of the Swing Thru system is its ability to handle containers," stated Lee C. Prunty, president of Walker-Schork International, Inc. & Container Handling Solutions, Inc. "This includes from either side, and to transship containers from one side of the host vehicle to the other in a single, continuous movement. The system can be utilized as a mobile container crane to efficiently load and unload other vehicles and it also has the ability to transport on or off highway. Our product is also opera-

tional wherever the host vehicle can travel and therefore, a paved surface is not required. Swing Thru can transfer containers to and from the ground, trucks, trailers or rail wagons," Prunty said.

Container Handling Solutions manufactures the Swing Thru, and Prunty explained, "When used in a truck/trailer configuration, the double-sided nature of Swing Thru enables the product to easily load and unload its own trailer, thereby transporting two containers in a pick-up-and-carry application. Swing Thru can drop a full container at one side and collect an empty container from the other, without moving the vehicle. The product handles transship to ground, transship to rail, and transship to truck or trailer."

The Swing Thru system provides a stable, safe operating platform with four-corner stabilization for maximum stability. This makes it impossible to roll the machine during lifting operations. Swing Thru has never been involved in a roll-over and no operators have ever been injured while using Swing Thru, according to Prunty. Swing Thru models with 60,000 lb. and 77,000 lb. lifting capacities have comprehensive safety systems, including a minimum leg pressure setting. This ensures safe footing prior to the boom activation and load transfer. It also ensures that the ground where the leg is deployed is firm enough to handle the load.



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The 77,000 lb. Rail Link Swing Thru is an alternative to large, heavy, traditional container lifting methods, in areas of seasonal or low-container volumes. The new 59,500 lb. Swing Thru was designed to offer maximum operational flexibility and provide the most efficient and stable platform for any application. The 10T machine was designed for both road transport and



TEME Engineering

military markets, for handling empty or full containers weighing up to 22,000 lbs.

Paul Halpin is president at TEME Engineering, which manufactures the TEME 90° container tilter. "Our tilter

See SPOTLIGHT, Page 5

### Manufacturer List

**A-Ward Attachments, Ltd.**  
Steve Colton  
503-519-1292  
www.a-ward.com

**Container Handling Solutions, Inc.**  
Lee C. Prunty  
815-562-3119  
www.swingthru.com

**General Kinematics Corp.**  
Dick Reeves  
815-455-3222  
www.generalkinematics.com

**Metso Minerals Industries, Inc.**  
Kyle Vidovic  
800-827-9237  
www.metso.com/recycling

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# Steel Market Development Institute reveals winners of scholarships in their steel wheel design competition

The Wheels Task Force of the Steel Market Development Institute (SMDI), Michelin and Lawrence Technological University (LTU) announced the scholarship winners of the steel wheel design competition at the program's unveiling this week at the LTU campus.

Colin Bonathan, a sophomore, won first place and was awarded a \$2,500 scholarship. Second place went to senior Chris Nichols, who received a \$1,500 scholarship, and Matthew Eash, a sophomore, placed third and was awarded a scholarship of \$1,000. In addition, nine students who participated in the competition received honorable mentions and were awarded \$100 each.

"The steel wheel design competition presented student designers with a

rare opportunity to influence the growing automotive styled steel wheel market," Ron Krupitzer, vice president, automotive market, SMDI said. "This year, the students took steel to a new level in terms of lightweighting and their designs proved to be low mass, feasible concepts that automakers and customers would love."

Students designed wheels for luxury cars and were judged by a panel of steel industry experts, automotive designers and wheel manufacturers on the following criteria: material celebration, changing customer perception of steel wheels in the automotive industry, creativity and feasibility in a real-world design, and concept.

The students' winning wheel designs included:

•Bonathan – A modern wheel designed for a 2011 Chrysler 300, includes a cylindrical shape that offers more character than today's flat blanks. Based on a paper model he designed as a solution on how to simulate folding steel, the wheel features high-strength stainless steel to achieve a lightweight design;

•Nichols – The winner of last year's competition at LTU, Nichol's wheel was designed for the luxury electric car, Fisker Karma. His wheel, inspired by a heated coffee mug, is designed to celebrate electric cars and integrates heatsinks on the spoke, drawing heat from the hubmotors and electronic components for a functional and appealing design. With heat reactive paint, the wheel creates an eco-friendly

identity at night by creating a subtle glow; and

•Eash – Inspired from an electric guitar and American culture, Eash's modular design features a lightweight, steel stamped backbone with a concave side in front to show depth and accentuate its steel-rolled spokes. Designed for a Lincoln MKR concept, the wheel is integrated for balance and allows for owner customization without compromising strength.

The steel wheels design competition highlighted the significant gains steel wheels are achieving with automakers through innovative styling, higher profit margins, lower warranty costs, competitive weight and superior durability.

## Spotlight

■Continued from Page 4

allows for the utilization of a container's full loading capacity. The trailer and container enter the tilter station where the container is unlocked from the trailer and secured to the tilter. Once locked into place, the tilter lifts the container free from the trailer, allowing it to drive away. The doors of the empty container are opened against the automated closing mechanism. The tilter then lifts the container to a maximum of 90° to allow for a crane or a magnet to load the material into the container. This ensures that all of the container's volume is used and it is filled to capacity," Halpin said.

Two cartons of yogurt walked into a bar. The bartender, who was a tub of cottage cheese, said to them, "We don't serve your kind in here."

One of the yogurt cartons replied, "Why not? We're cultured individuals!"

## AR EQUIPMENT SPOTLIGHT

To be included in the spotlight, you must manufacture the equipment featured. We require a company name, contact person, telephone number and, if applicable, a website address.

To be listed in the appropriate spotlight, please call 877-777-0737.

### UPCOMING TOPICS

5/11	Refuse Bodies
6/11	Solar Energy Systems
7/11	Collection Technology
8/11	Waste Receptacles
9/11	Rollbacks

American Recycler is not responsible for non-inclusion of manufacturers and their equipment. Manufacturers are to contact American Recycler to ensure their company is listed in the Equipment Spotlight.

An optional load cell in the base frame of the TEME container can be used to monitor container weight. This ensures that a load is in compliance with transport and shipping regulations. Once loaded, the container doors are automatically closed and held shut as the load is returned to the container's home position. Operators can then lock down the container doors before releasing the closing mechanism. The tilter transfers the loaded container back onto the trailer and it is ready to accept another empty container.

Halpin commented, "Tilting the container through 90° allows customers to fully load product to the container's maximum capacity, which reduces shipping costs and maximizes profits. The angle of the container can be adjusted during loading as product height is increased, ensuring total distribution of the product in the container."

Standard product features include: a pendant remote control with normal and slow speed capability for use in accurate container loading; gasoline or

diesel fueling; and a hydraulic-control locking mechanism for quick and easy container control. A detachable power unit that extends up to 30 feet from the tilter is optional. The 20 foot container includes a 17 horsepower diesel engine that powers a hydraulic pump. Other start-up and operating safety features are also part of the hydraulic unit, which ensures added control for smooth and efficient operation.

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## Metal thefts

■Continued from Page 1

each posting. For law enforcement, it can also be a research tool where all theft reports can be searched by zip-code, state or province for up to 14 days.

Since ScrapTheftAlert.com was established, nearly 10,000 recyclers and members of law enforcement have registered. Over the last two years, over 3,200 theft alerts have been issued.

"To date, 2881 law enforcement officers have signed up representing hundreds of jurisdictions. Florida has the most law enforcement officers with 316. Michigan has issued the most alerts with 363," said Bush.

Danielle F. Waterfield, Esq., ISRI's assistant counsel and director of government relations, commented on the Michigan alerts. "It's no coincidence that Michigan enacted a law about two years ago that required the use of ScrapTheftAlert.com.

"Any recycler will tell you that the faster an alert is issued the better the chance of recovery because thieves usually sell materials quickly," said Bush. "Before ScrapTheftAlert.com, an officer investigating a metal theft would either have to make a dozen phone calls to local recyclers, or drive to all of them. As a former metal theft investigator, I had to do that on many occasions. ScrapTheftAlert.com can reach a larger base much faster than an officer making phone calls. An officer registered with us with a mobile data terminal (MDT) and internet access can actually be on-scene at a metal theft and issue an alert from the patrol car."

No one knows or reports the actual number of metal thefts that occur each year. Many go unreported. Many are reported in local newspaper police blotters, but these individual stories are usually deemed too insignificant for major media outlets. Yet each year these thefts cause hundreds of millions, if not billions of dollars in infrastructure losses. State lawmakers are hearing the message loud and clear.

Thefts are happening at farms where irrigation systems are vanishing, at commercial and industrial sites and at homes across the country. It has been reported that thieves are using lists of foreclosed homes as virtual shopping lists. A work crew arriving at a foreclosed house in a heavily foreclosed neighborhood draws little attention. A few hundred dollars worth of scrap wire or pipe torn out of a house could cost many thousands to repair, or render the structure virtually worthless in today's real estate market.

"If you go by the numbers of ScrapTheftAlert.com, the number of thefts are definitely on the rise over the last two years, but keep in mind that not every

metal theft in the country is reported to us, only those reported by people who are registered," said Bush.

Copper is a prime target of looting because it is widely deployed and that is where the money is. Over the past year prices for copper shot up from approximately \$3.25 to over \$4.50 per pound on the COMEX exchange. Rising prices have accelerated thievery from electric utilities and telecoms, causing numerous outages. The proliferation of cell towers, usually located in remote areas and heavy with transmitters and cabling, have also fallen victim.

Many gas and electric utilities, and telecommunications companies have stepped up their anti-theft programs, establishing hotlines, upping rewards for reporting crimes and increasing electronic and human surveillance, not just to protect valuable assets and avoid the enormous costs for replacements, but more vitally to ensure system reliability.

One of the most proactive states is Georgia. There, through a cooperative effort, gas and electric utilities are offering a whopping \$3000 reward to anyone reporting metal thefts to a statewide hotline. The coalition includes Dalton Utilities, Electric Cities of Georgia, Georgia EMC (a group of 42 electric cooperatives), Georgia Power, Georgia Transmission Corporation and the Municipal Electric Authority of Georgia.

The reward will be paid to anyone who furnishes information that leads directly to the arrest and conviction of someone involved in metals theft from a utility property in Georgia. The program asks the public to gather information on suspects such as a physical description of a person or car and get license plate num-

See METAL THEFTS, Page 7

## A Closer Look

by Donna Currie

### Telstar Metals Co.

Rick Davis • 417-463-7088

Rick Davis and his wife, Linda, founded Telstar Metals in 1985 in a hay barn on their dairy farm. Shortly after, they bought a facility along with another local couple, and the business was incorporated six months later. Two years later, Davis sold the dairy business.

Davis said that the dairy business was getting tough as small dairies were being "squeezed out" by the large companies. To make ends meet, Davis went to work part time for a local recycler, but it wasn't long before he realized he wanted to go out on his own and he took the knowledge he got from his part time job to found his own business.

"We take a lot of pride in our customers that we've had for more than 20 years," Davis said. The first, Rockwell International, is still a customer. "We are a critical manufacturer for steel mills and foundries," he explained. "I've made numerous midnight runs when customers' projections were wrong."

But Davis doesn't mind those midnight runs. He said that when he's making a special trip to make sure his customer's plant can keep operating, "it makes it feel like you've accomplished something." Of all the things he does, he enjoys his interactions with his customers the most. "I go to some pretty rough places to buy scrap, and some very nice ones."

The critical product that Telstar manufactures and that Davis sometimes delivers on those emergency runs is aluminum deox. Davis explained that deox "is used to make steel stronger" and results in higher-grade steel. The deox is also used in making stainless steel, and is used for some very specific products, like the railroad wheels that one customer manufactures.

While he doesn't know where all of his material winds up as an end-product, Davis said that he's proud to have some of his material in the stainless steel benches that are part of the 9-11 memorial at the Pentagon.

To make sure his material is the highest grade possible, each batch is analyzed, and that analysis is sent out with each shipment. "Our product is 93 percent minimum," Davis said, "and up to 99 percent aluminum." To get that sort of result "we have to know what we're putting in our furnaces."

He buys his material from several recyclers, as well as some fabricating plants in a four-state area near his Marionville, Missouri plant. He buys mostly extrusions, sheet, and car and truck wheels.

Sales travel a lot farther, including one customer in Winnipeg, Canada. However, freight costs have to be considered, so most of his material comes from the Midwest. Sales range from 500-10,000 lbs. per order, and the material he sells ranges from 1/4 and 5 lb. stars to 30 lb. ingots.

Davis said that the star shape has more surface area which allows the material to melt faster, but the smallest stars can be expensive since they're more labor-intensive to make. He described the 5 lb. stars as looking like a bundt cake. He also makes 5 lb. notch bars. "We take a product that is virtually useless and change it to a product that is critical for a steel mill to operate," Davis said.

After 26 years in business, Davis knows what he has to do, but that wasn't always the case. "We learned a lot by making mistakes," he said. "We tried to get larger in the mid-late 90's," but that turned out to be a bad business move. In 2004, he bought out his partners, downsized the operation, and moved the business closer to home.

Right now, his plant operates two 12-hour shifts, 4 days a week, but he wouldn't mind seeing business increase so he could run a 24/7 operation. The good news is that "business has turned around since the first of the year. All of our customers are picking up."

It hasn't always been that good, and he has dealt with customers who have gone through bankruptcies "but now it's paying off" with customer loyalty. He said that "starting your own business from scratch is difficult and challenging. Some of it you don't know about until you get into it."

He found out one very important thing when his son started working for him in 2004. "I didn't realize that he'd been wanting to work with me for years," Davis said. "And he's really an asset. He's going to take care of the company just like I did. He has a good relationship with all our customers."

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# Metals USA acquires Richardson Trident Company

Metals USA Holdings Corp., a provider of processed carbon steel, stainless steel, aluminum and other metals, has closed the acquisition of The Richardson Trident Company.

The acquisition of Trident represents Metals USA's third acquisition since its IPO last April. With sales for the 12 months ending December 31, 2010 at approximately \$148 million on 23,000 shipped tons, Trident is also the largest company acquired by Metals USA so far.

With the addition of Trident's eight processing centers located in Texas, Oklahoma, Georgia, California and Massachusetts, Metals USA significantly increases its geographic coverage toward desired target markets in the Southeast, South central, Northeast and the West Coast of the United States.

Founded in 1962, Trident is a provider of nonferrous products. They supply a host of services such as precision sawing, boring, honing, slitting, sheeting,

shearing and tuning. In 2010, aluminum, stainless steel and nickel sales represented 39 percent, 19 percent and 17 percent of Trident's revenues, respectively.

The majority of Trident's revenues are generated by supplying products to a blue chip customer base in the fast growing and highly profitable oil and gas field services market. Trident also has significant exposure to other attractive sectors such as aerospace, defense and transportation. This acquisition enhances Metals

USA's position and market-share within these four sectors.

Mike Cooney, Metals USA's president of nonferrous, will relocate to Dallas, assuming direct responsibility for Trident's operations while continuing to lead all of Metals USA's nonferrous business. Metals USA will operate the newly acquired business under its current name, The Richardson Trident Company.

## Metal thefts

■Continued from Page 6

bers. There is legislation under consideration in Georgia that would require convicted metal thieves to be registered before release from prison and require law enforcement to keep a list of metal thieves, by county.

"We recognize exactly what Georgia did. ISRI is working with states and utilities to be part of the solution by helping establish more collaborative coalitions like the one in Georgia," said Waterfield. "We also want recyclers to know what to look for in proprietary material that a utility uses so it can be identified."

Well organized efforts by local and regional stakeholders appear to be the most effective anti theft programs. One of the most notable is the Macon-Middle Georgia Metal Theft Committee. This regional cooperative of many entities affected by metal theft crimes in central Georgia includes recyclers, law enforcement, commercial and industrial businesses, gas and electric utilities, telecoms and railroads. "They had so much success that they lowered their metal thefts by nearly 90 percent in 3 months and they are still maintaining that. Other coalitions like Macon are happening in other states around the county. We need more of them," Bush noted.

Danielle Waterfield gave a legal overview: "According to the numbers we are tracking for this legislative session, there are a total of 81 proposed metal theft bills throughout the United States. Of the 50 states, 48 have some form of metal theft legislation already on the books. They vary by state. A common thread in all is some form of record keeping requirement for scrap dealers, which ISRI suggests in the ISRI Practices and Proce-

dures for Minimizing the Risks of Purchasing Stolen Materials. There are other factors that vary in each state such as requiring photographs, fingerprints and the type of recordkeeping. It all depends on the jurisdiction.

"ISRI members have no problem keeping records and having open-door policies for law enforcement to come in when there is probable cause for an investigation. ISRI members find that regulations start going overboard, however, when the laws start requiring factors that are not effective in catching the thieves. One example is mandatory electronic reporting. We do not see any evidence that daily data dumps of transactions actually helps catch and successfully prosecute criminals.

"We believe the ScrapTheftAlert.com system is more effective. Recyclers can help law enforcement at the gate if they know they are looking for a particular material. They won't know what they are looking for unless the property owner reports it as stolen and law enforcement gets that report out to recyclers. That is a more active and proven way, not only to recover the stolen material, but to catch the thief."

Waterfield continued, "We have not seen any evidence where the successful prosecution of a thief is directly linked to information gathered from daily data dumps to a computer database, and it is a burden, especially on smaller recycling companies that don't have sophisticated computer systems. A lot of legislation is misdirected and includes components that don't help with the prosecution of the thieves. We support increased penalties on the thieves. If the theft of materials is a felony, for example, the thief is more likely to be prosecuted.

"One of the things ISRI has pushed for is that laws recognize the value of the

damage to the property caused by the theft, not just the value of what was stolen, and to have the thief be fully accountable for the damage caused. Most laws are not written that way. However, that is starting to change."

Waterfield's point is illustrated by the fact that a small amount of copper ripped out of an electrical substation, or from a cell tower could cost the owners many thousands of dollars in repairs, plus revenue losses from service outages.

When asked about catching and prosecuting thieves, Bush said that it's like any other criminal case. "Some are harder to prove than others. Generally, most law enforcement agencies lump metal thefts in with property crimes. All law enforcement agencies track crimes and most metal thefts are categorized as property crimes, however, there are a few agencies that track metal thefts separately. Penalties for metal theft vary by state, the type of property and the value of the property. As an example, in Florida, if it's under \$300 dollars it's a petit theft which is a misdemeanor. Anything over \$300 dollars is a grand theft which is a third-degree felony

and then depending on the property and its value, penalties go up from there."

Most reputable scrap metal dealers and processors recognize the telltale signs of stolen metal and thieves and work with law enforcement. It is challenging, however, since illegal scrap can enter the stream at many different portals and is often mixed in with other materials. Also, there is not enough focus on prevention by property owners. "In the majority of cases when property is left unprotected that is when theft occurs," Bush concluded.

At [www.isri.org/theft](http://www.isri.org/theft), there is a wealth of detailed information on metal theft prevention including Recommended Practices and Procedures for Minimizing the Risks of Purchasing Stolen Materials.

The site offers an opportunity for all stakeholders to register for ScrapTheftAlert.com, and where law enforcement can subscribe to receive BOLO News, an e-mail newsletter that shares success stories, working strategies and other issues pertinent to the fight against metal theft.

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