



# American Recycler

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AmericanRecycler.com

## FOCUS: Metals

### Imported steel impacts domestic production



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# Recycling: A crucial component of LEED construction practices



The Executive Air Terminal in Chattanooga, Tennessee is a LEED building designed by Allen & Hoshell.

PHOTO COURTESY OF ALLEN & HOSHELL

by MAURA KELLER

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For more than a decade, there has been a significant push toward sustainable construction initiatives. Green methodologies in the construction and waste reduction process are now taking center stage for construction projects, both large and small. The goal is a simple one: to extend, preserve and recycle resources used in the sustainable construction initiatives. As more and more construction professionals embrace these green building concepts, particularly in respect to LEED certified construction processes and procedures, they are eagerly focusing on construction waste management and recycling programs.

Developed by the U.S. Green Building Council (USGBC), LEED is an internationally recognized green-building certification system. According to the USGBC, LEED “provides third-party verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.”

The LEED Rating System offers four certification levels for new construction – Certified, Silver, Gold and Platinum – each corresponding to the number of credits accrued in five green-design categories: sustainable sites, water efficiency, energy and atmosphere, materials and resources, and indoor environmental quality.

And while the green-building design, construction, operations, and maintenance is paramount, how the

building’s construction waste is handled plays an important role in LEED certification and subsequent rating system.

In fact, the Construction Waste Management component of the LEED rating system (referred to as credits MRc2.1 and MRc2.2), focuses on “diverting construction, demolition and land-clearing debris from disposal in landfills and incinerators. Redirect recyclable recovered resources back to the manufacturing process. Redirect reusable materials to appropriate sites.”

So if a builder or construction company is striving to achieve this credit in their LEED certification process, at least 50 percent of non-hazardous construction and demolition debris (or 75 percent for credit MRc2.2) must be recycled or salvaged.

Therefore most builders seeking the LEED designation develop a construction waste management plan that, at a minimum, identifies the materials to be diverted from disposal and whether the materials will be sorted on-site or commingled. The newest version of the LEED rating system, referred to as the LEED v4 or 4.0, has divided the construction and demolition waste management into two parts. The first is a prerequisite for creating a construction waste management plan, while the second part provides voluntary points for implementing the plan and diverting construction and demolition debris from the landfill.

With the latest LEED 4.0 rating system, construction and demolition waste management planning will now be a prerequisite and the standard will be raised. In fact, a strong construction waste management plan and tracking waste is

required as a new prerequisite – whether a builder is attempting to earn any LEED points or not.

As part of developing a construction waste management plan under the new LEED 4.0 system, construction companies or builders must:

- Establish goals by identifying five materials and approximate percentage of waste they represent.
- Specify whether materials will be separated or commingled and the diversion strategies.
- Provide a final report detailing all waste streams generated and diversion rates.

Here’s how it works: At the beginning of any LEED project, a construction waste management plan is prepared which includes the identification of diversion goals, relevant construction debris and materials to be diverted, implementation protocols and parties responsible for implementing the plan.

As identified in the construction waste management plan, specific materials include cardboard, paper, plastic, metal, wood, concrete and brick masonry and gypsum board. Other hazardous materials identified in demolition projects would include mercury-containing light fixtures and products such as lead or copper.

According to A-Industrial’s owner, Andrew Hernandez, today’s LEED require very specific parameters as it relates to recyclables. A-Industrial is an all-encompassing LEED Certified Design-Build Creative Studio based in downtown Los Angeles.

“Under LEED credits category ‘Materials and Resources’ recycled con-  
**See CONSTRUCTION, Page 11**



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## California Carpet Stewardship assessment hiked

The Carpet America Recovery Effort (CARE) and CalRecycle disclosed an updated assessment fee of \$.20 per sq.yd. on all carpet sold or shipped in California, effective April 1, 2016. The rate is an increase from the previous assessment of \$.10 per sq.yd., to be collected as a non-tax item at the point of sale, throughout the sale and distribution chain, to the final customer.

“The assessment increase is necessary to offset the negative impact recent market developments have had on carpet recovery efforts and carpet recycling infrastructure in California,” said CARE’s Executive director Dr. Robert Peoples. These developments include the tremendous drop in crude oil prices in 2015, by over 60 percent since mid 2014. Since crude oil is the feedstock for virgin synthetic materials, lower oil prices have put the production of recycled post-consumer carpet fiber at a disadvantage compared to virgin materials.

Funds raised by the assessment will be paid out to qualifying recyclers as increased subsidies to help them stay competitive. In addition to increased subsidies, CARE will use the assessment funds for a newly implemented grants program to encourage investment in carpet recycling facilities and accelerate the development and marketing of products made from recycled carpet fiber. “We are hopeful that with the increased assessment fee and additional program incentives, CARE can help reinvigorate carpet recycling in California in 2016 and beyond,” said Peoples.

## Advanced Disposal honors top employees



Advanced Disposal, an integrated environmental services company, honored top employees at the company’s fifth annual employee of the year awards celebration in Orlando, Florida.

Sixty-eight employee nominees and their guests attended the event held at Disney’s Yacht Club Resort. All nominees were presented with a plaque, and winners received crystal and cash awards recognizing the tremendous accomplishment. Congratulations to the following 2015 award winners:

- Lori Lamb – Norcross, Georgia – Trash Talker of the Year.
- Steve Edwards – Ball Ground, Georgia – Municipal Marketer of the Year.
- Jenny Taylor – Decatur, Illinois – Admin./Clerical I Employee of the Year.

- Alverda Galon – Apopka, Florida – Admin./Clerical II Employee of the Year.

- Joseph Fail – Selma, Alabama – Operations Employee of the Year.

- Harvey Corrigan – State College, Pennsylvania – Good Samaritan of the Year.

- Regina Caronia – Apopka, Florida – Chief Executive Officer’s Award.

The employee of the year awards celebration is held in conjunction with the company’s annual meeting so that all levels of management can celebrate in the company’s accomplishments over the last year, review plans for achieving goals in the New Year, and most importantly, personally applaud our very best team members.

## K-cup maker challenged to go recyclable

Three inspiring Birmingham, Alabama children are preparing to compete in the 2016 First Lego League (FLL) World Festival in St. Louis in April 2016.

This global competition challenges 9 to 14 year olds to think like engineers and scientists.

Known as The Variables, the team of three is gearing up for this year’s FLL Challenge, Trash Trek. Participants are asked to find solutions to the world’s growing trash problems. Each challenge has three parts: the robot game, the project and the core values.

“As for the project, we identified K-cups as a source of plastic waste. K-cups taste great and are super convenient but are wasteful and not recyclable yet,” The Variables explained. “And the amount of K-cups that are thrown out every year would circle the Earth 10.5 times!”

In February the kids made a video that specifically requests the chief executive officer of Keurig, Brian Kelley, to help. The kids challenge Keurig to be more aggressive with their plan to make K-cup pods 100 percent recyclable before the planned 2020 date.

Kelley responded to the kids in a video and Keurig agreed to fly the kids to Boston to meet, tour and better understand their company’s sustainability goals.

For a direct link to the team’s Facebook page, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

# Recyclable

# Revenues



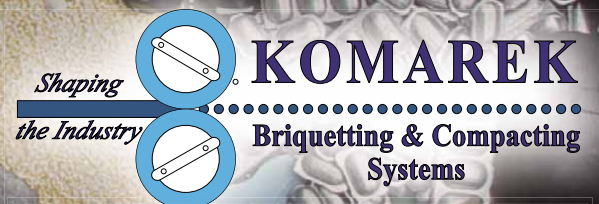
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# 2016 Great American Cleanup launched

Keep America Beautiful launched the 2016 Great American Cleanup. Entering its 18th year, the Great American Cleanup is the country's largest community improvement program. The campaign is led by more than 600 Keep America Beautiful affiliates and hundreds of other partner organizations, with events formally kicking off around the first day of spring and continuing throughout the year. This year's Great American Cleanup theme – "Clean Your Block Party" – encourages all volunteers and participants to take part in a public space Great American Cleanup event and bring the experience home by organizing a cleanup and beautification event on their own block, wherever they live.

Participants conducting Great American Cleanup "Clean Your Block Party" events are encouraged to share photos and stories about their experience using #cleanYOURblock on social media. Last year, the Great American Cleanup engaged more than 5.4 million volunteers and participants across the country to take action through high-impact events. Through the collective action of millions of volunteers, the Great American Cleanup has delivered, on average, \$175 million in measurable benefits to tens of thousands of communities nationwide in the past five years.

Keep America Beautiful will celebrate the 2016 Great American Cleanup with added support from longstanding partner, Lowe's. To shine a light on some of the incredible community improvements projects that comprise the Great American Cleanup the national nonprofit and Lowe's Heroes employee volunteers will work with local affiliates to conduct four showcase events in New York City,

Los Angeles, East Point, Georgia (outside of Atlanta) and Mesquite, Texas (outside of Dallas). Each of these four affiliates will receive a \$20,000 Lowe's grant to conduct a special event focused around the "Clean Your Block Party" theme.

•Keep Mesquite Beautiful, Texas (April 8): Keep Mesquite Beautiful volunteers will undertake a major cleanup, renovation and rededication of the Paschall Park Butterfly Trail. The project will include planting native species, providing educational opportunities for trail visitors and planting milkweed to increase the monarch butterfly population.

•Keep East Point Beautiful, Georgia (April 18): Keep East Point Beautiful volunteers will build a sustainable green space with pollinator gardens, using native flowers and shrubs to create a beautifully landscaped gateway along the main corridor of the city leading into the East Point Downtown Business District.

•Keep Los Angeles Beautiful, California (April 28): Working with the City of Los Angeles, Keep Los Angeles Beautiful volunteers will revitalize a 1.6-mile stretch of a drought-damaged median on San Vicente Boulevard using newly approved designs from local architectural students. The project will include sustainable tree and shrub plantings, ground cover, irrigation and storm water capture, paving materials, community signage and other artistic elements.

•Keep New York City Beautiful, New York (May 3): Keep New York City Beautiful will work with Keep America Beautiful, the Citizens Committee for New York City and local volunteers on community improvement initiatives in all five New York City boroughs. Projects will include

a spring garden cleanup in Chelsea Water-side Park, which includes removing invasive plants, spreading mulch and compost, and planting annuals, as well as a cleanup of three areas of the Hudson River Park, including The Habitat, a natural style garden site planted to host a variety of birds, insects, butterflies and other wildlife.

Each year, Great American Cleanup events and education programs help to renew public spaces such as parks, trails and recreation areas; clean shorelines and waterways; remove litter and debris; reduce waste and improve recycling behavior; and plant trees, flowers and community gardens, among other activities to inspire a new generation of community stewards. Individuals interested in participating in an event can visit KAB.org to find their closest Keep America Beautiful affiliates and local Great American Cleanup events.

In 2015, Great American Cleanup volunteers and participants:

•Removed 62 million pounds of litter and debris;

•Cleaned 86,000 miles of streets, highways, trails, waterways and shorelines;

•Cleaned and renewed 69,500 acres of parks and public lands;

•Collected more than 177 million pounds of items for recycling or reusing, including PET plastic bottles, electronics, newspaper and more; and

•Planted 49,500 trees and 625,000 flowers and bulbs to strengthen the green infrastructure of communities.

## Events Calendar

### April 2nd-7th

**ISRI.** Mandalay Bay Resort & Casino, Las Vegas, Nevada  
202-662-8500 • www.isri.org

### April 4th-7th

**SWANApalooza.** Charleston Arena Convention Center, Charleston, South Carolina.  
800-467-9262 • www.swana.org

### April 12th-13th

**Spring Workshop.** Hyatt Regency Princeton, Princeton, New Jersey.  
802-254-3636 • www.nerc.org

### April 18th-20th

**Aluminum Association Spring Meeting.** Fountainbleu Miami Beach, Miami, Florida, 703-358-2960, www.aluminum.org

### April 28th-30th

**United Recycler's Group Training Conference.** Hyatt Hill Country Resort & Spa, San Antonio, Texas.  
888-874-3463 • www.u-r-g.com

### May 1st-3rd

**C&D World.** Double Tree by Hilton, San Jose, California.  
630-585-7530 • www.cdrecycling.org

### May 15th-18th

**The Federation of New York Solid Waste & Recycling Conference with Trade Show.** The Sagamore, Lake George, New York.  
518-541-2548 • www.nyfederation.org

### May 16th-19th

**AISTech 2016, The Iron & Steel Technology Conference and Exposition.** David L. Lawrence Convention Center, Pittsburgh, Pennsylvania.  
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## Winner declared in battery trade-in competition

Residents of Mississauga, Ontario pulled out all the stops to propel the Millcreek Branch of Dewalt service centers to the top of the pack in the 2015 Dewalt/Call2Recycle Battery Trade-In event. At the end of the yearlong battery collection competition, Millcreek had amassed an impressive 2,866kg of used batteries, besting last year's winning total by more than 270kg.

Building on the success of the first battery return event in 2014, Dewalt® and Call2Recycle collaborated once again to encourage consumers to bring their used batteries to Dewalt locations in 2015. As an enticement, Dewalt

offered customers a 10 percent discount on the purchase of a new Dewalt power tool battery when they recycled their used rechargeable batteries. Residents across Canada responded enthusiastically, diverting 15,527kg of used batteries from landfills throughout the competition. Call2Recycle Canada, Canada's national consumer battery recycling program, facilitated the collection and recycling of the batteries.

## Astec Mobile Screens honored for safety record

Astec Mobile Screens (KPI-JCI and Astec Mobile Screens) was recently recognized for achieving a superior safety rating for Astec Industries companies in 2015.

Currently, the company has gone 745 days without a recordable accident for its 100 associates employed at the manufacturing facility, according to Tim Gonigam, president of Astec Mobile Screens. Astec Mobile Screens is one of three Astec Industries companies that make up KPI-JCI and Astec Mobile Screens, a worldwide leader in manufacturing equipment for the aggregate, construction and recycling industries.

As a result of its dedication to safety, the company was honored with an award from parent corporation Astec Industries. Gonigam said the employees' commitment to safety reflects the company's core values, which advocate "safety, profit and growth as means to ensure success of the company."

## City of Highwood to require curbside organics collection

The City of Highwood, Illinois will be the first municipality in Illinois to require curbside organics collection for both commercial and residential services. Lakeshore Recycling Systems (LRS), Chicagoland's independent recycling and waste diversion services provider, was awarded the residential and the commercial contracts for solid waste removal; with the residential contract going into effect in Spring 2017, and commercial services.

The year round organics program will include food scraps and yard waste comingled in a separate third cart provided to each customer. Residents will be provided a 96 gallon recycling cart, a 65 gallon garbage cart and a 35 gallon organics cart. Commercial customers will be able to adjust their third bin based on their waste production. LRS will transport the organics to be recycled into compost.

## EPA to proceed with West Lake landfill barrier

EPA Region 7 is proceeding with the installation of a physical isolation barrier for the West Lake Landfill Superfund Site in Bridgeton, Missouri. The decision also calls for the installation of additional engineering controls, such as cooling loops, to prevent potential impacts that could result if a subsurface smoldering event were to come into contact with the radioactive materials contained in the Landfill.

The agency will continue to work closely with the Missouri Department of Natural Resources, U.S. Army Corps of Engineers and other stakeholders as final plans are developed.

The installation of a physical isolation barrier, and other engineering controls, will proceed as EPA continues to evaluate the remedy decision for the West Lake Landfill Site.



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## \$13k fraud prevented

California's Department of Resources Recycling and Recovery (CalRecycle) disclosed the first recycling fraud border bust of 2016. Daniel Rosales, of Baldwin Park was due at the Riverside County Superior Court in Indio to be arraigned on charges of felony recycling fraud and attempted grand theft. He faces six months to three years in prison if convicted.

"Truck drivers need to understand that CalRecycle will not tolerate recycling fraud, which essentially steals money from the honest Californians who pay California Redemption Value (CRV) at the cash registers," CalRecycle director Scott Smithline said. "Anyone who helps these criminal organizations haul out-of-state used beverage containers into our state to make fraudulent CRV redemptions will be caught and punished."

On January 15, 2016, California Department of Food and Agriculture agents at the CDFA border checkpoint in Blythe, California, conducted an inspection of a 53' semi-trailer, marked as BNS Trucking out of Baldwin Park, and discovered used beverage containers inside. The driver, Daniel Rosales, produced a bill of lading indicating he was hauling bottle caps. Rosales was unable to produce the Imported Materials Report, legally required for anyone transporting used beverage containers into California. CDFA agents alerted members of the California Department of Justice's (CDOJ) Recycling Fraud Team. After conducting a brief interview, Rosales was placed under arrest and his truck was impounded. It was later determined that Rosales was hauling 6,622 lbs. of aluminum and 2,606 lbs. of plastic used beverage containers with a potential CRV value of \$13,550.

CDOJ investigates and prosecutes criminal cases on behalf of CalRecycle, which has administrative authority over the state's beverage container recycling program. In addition to CalRecycle's interagency agreements with CDOJ and CDFA, the department aggressively combats fraud and illicit payments through enhanced precertification training.

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# AUTOMOTIVE

## Auto body supply shop fined \$25,000

Iffy's Auto Body Parts & Supplies Ltd. of Mississauga, Ontario, was ordered to pay \$25,000, after pleading guilty in the Ontario Court of Justice, to contravening the Volatile Organic Compound (VOC) Concentration Limits for Automotive Refinishing Products Regulations under the Canadian Environmental Protection Act, 1999 (CEPA 1999).

The fine will be directed to the Environmental Damages Fund (EDF).

As a result of this conviction, the company's name will be added to the Environmental Offenders Registry.

## ISRI passes Right to Reuse policy

At its winter board of directors meeting, the Institute of Scrap Recycling Industries (ISRI), formally adopted a policy in support of recyclers' ability to reuse products, and the benefits of reusing.

"More and more traditional recycling companies are diversifying their business models to include reuse," said Robin Wiener, president of ISRI. "It is essential that they have the legal protections in place that allows the lawful repair and return of these products to the marketplace. This policy allows ISRI to advocate for such protections."

The policy states:

ISRI members across the commodity spectrum rely on reusing goods and products, including electronics equip-

ment, automotive parts and tires, as part of their business models. Reuse provides an excellent environmental and economic benefit. Despite these benefits, product manufacturers limit the ability of recyclers to legitimately reuse products; for example, by limiting parts and parts information, manuals, and utilizing digital locks that impede a product's reuse. These practices inhibit every recycler's right to return products and goods back into the marketplace for legitimate reuse. Consumers should have access to cost-effective alternatives to new products and replacement parts. As global resources become more constrained, the right to reuse should be fully supported.

As such ISRI supports policy that recognizes:

- Used products destined for reuse are not waste;

- Provided that the recycler is not prohibited by individual contracts, recyclers have the right to reuse and remarket products they lawfully own or are remarketing as agents of owners (consignment inventory);

- Recyclers should be able to bypass technological protection measures (digital locks) that prevent reuse ; and

- Recyclers should have convenient and affordable access to, but not limited to, repair manuals, parts and parts information, schematics, diagnostic software, the tools that are necessary for safe and responsible repair and the information to safely handle and reuse certain products, such as airbags.

## More electric cars than ever before on greenest vehicles list

Despite a tumultuous year for the automotive industry, manufacturers have continued to offer exciting technology options for a growing vehicle market. At [www.greenercars.org](http://www.greenercars.org), the American Council for an Energy-Efficient Economy (ACEEE) released its 19th annual comprehensive environmental ratings for vehicles.

The Smart For Two Electric Drive tops the Greenest List for the third year in a row with an unprecedented Green Score of 63. Toyota's Prius line performs exceedingly well once again, with the new Prius Eco nabbing the 4th spot,

while the Prius C and original Prius claim spots #8 and #9.

For the first time ever, the Greenest list is completely populated by plug-in and hybrid vehicles; not a single vehicle with only an internal combustion engine appears. This is partly due to the disappearance from the American market of a few of the longstanding entries on the Greenest List, including the Honda Civic Natural Gas. However, the conventional Smart ForTwo and Chevrolet Spark hover just below the Volkswagen Jetta Hybrid.

"Fortunately, the electricity sector is slated to become cleaner over the life of

model year 2016 vehicles, thanks to the Clean Power Plan, and that has bumped up electric vehicles' green scores this year. Nevertheless, it's important to acknowledge that how green your electric vehicle truly is depends on the electricity it uses to charge," said ACEEE lead vehicle analyst Shruti Vaidyanathan.

The newest additions to the list are the Volkswagen eGolf and the Kia's Soul electric vehicle, which claim the #5 and #7 spots respectively. This year marks the first time a Kia vehicle has earned a top spot since 2009. The improved 2016 Chevrolet Volt also

nabs a spot this year (#11) thanks to significant increases in fuel economy and its new streamlined vehicle design.

Modern clean diesels have repeatedly placed well in ACEEE's annual rankings, only a few places away from the "Greenest" list. However, following the EPA announcement that Volkswagen has cheated federal emissions standards since 2009 with the use of defeat devices, [www.greenercars.org](http://www.greenercars.org) suspended its Green Scores for all affected VW, Audi and Porsche diesel models.

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**CONSTRUCTION & DEMOLITION**

**Construction spending posts strong year-over-year gains**

Construction spending soared in January from a month earlier and all major segments posted hefty year-over-year gains, pushing the total to the highest level since October 2008, according to an analysis by the Associated General Contractors of America. Association officials said the new spending figures indicate that demand for construction remains robust amid broader economic concerns.

“There were solid gains for both the month and year in apartment, nonresidential and highway construction,” said Ken Simonson, the association’s chief economist. “Although favorable weather may have boosted these results, demand for many types of projects remains strong despite worries that the overall economy has slowed.”

Construction spending in January totaled \$1.141 trillion at a seasonally adjusted annual rate, 1.5 percent higher than the upwardly revised December total and 10.4 percent higher than in January 2015, Simonson said. Private residential spending was flat for the month but increased 7.7 percent compared to January 2015. Spending on multifamily residential construction jumped 2.6 per-

cent for the month and 30 percent year-over-year, while single-family spending dipped 0.2 percent from December but rose 6.6 percent compared to January 2015.

Private nonresidential construction spending increased 1.0 percent for the month and 11.5 percent from a year earlier. Simonson observed that nearly every segment increased from 12 months before. The largest private nonresidential segment in January was manufacturing construction, which rose 4.2 percent for the month and 11.0 percent year-over-year. The next-largest segment, power (including oil and gas pipelines), gained 2.7 percent and 10.3 percent, respectively.

Public construction spending increased 4.5 percent from a month before and 13.0 percent from 12 months earlier. The biggest public segment – highway and street construction – leaped 15 percent for the month and 34 percent year-over-year, as record warmth in January 2016 allowed projects to proceed that would normally have been deferred until spring in some regions, Simonson noted.

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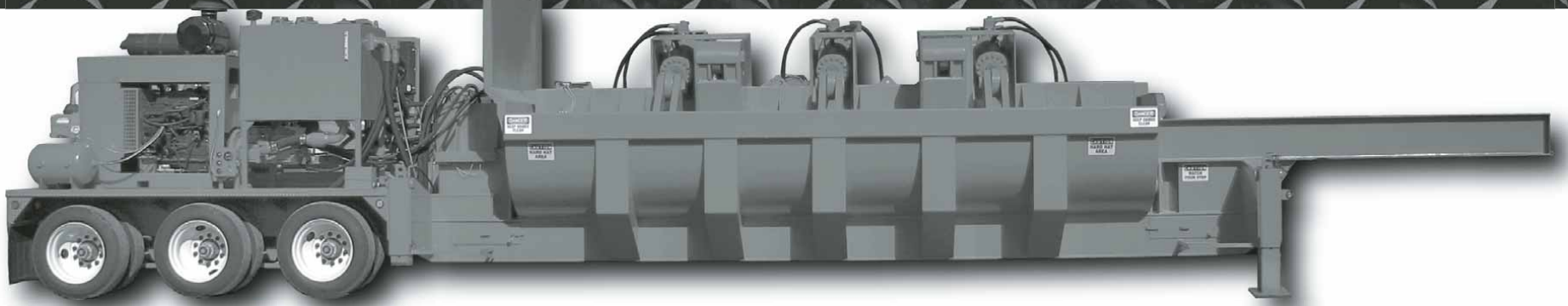
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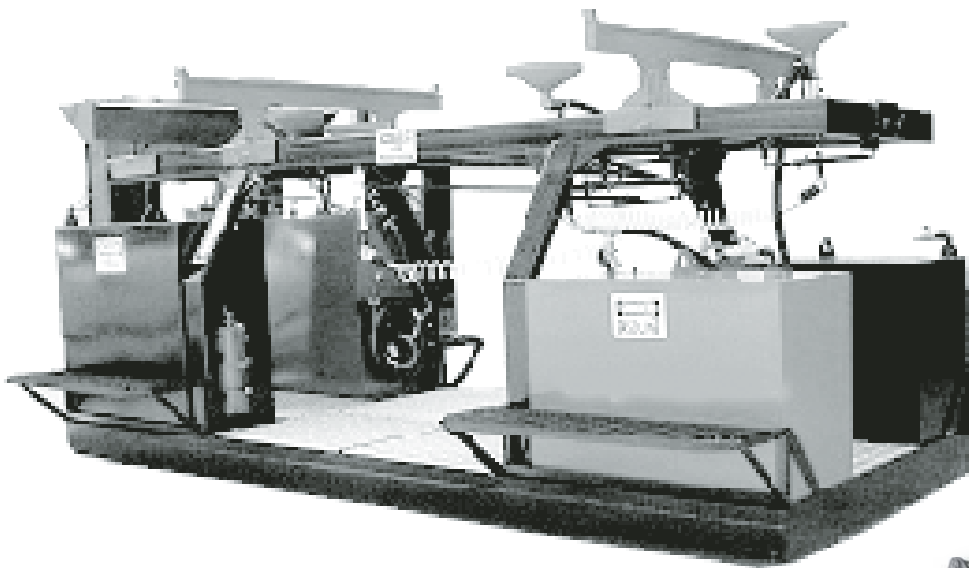
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# Construction

■Continued from Page 1

tent needs to be made of post-consumer content plus half of the pre-consumer content, and needs to be at least 10 percent based on cost of the total value of the projects materials," Hernandez said. "If it yields 20 percent recycled content, you can get up to 2 credits as opposed to just 1 with 10 percent."

Waste management control at the construction site is crucial for obtaining other LEED credits while building. "Diverting demolition material and construction debris directly back to manufacturers, or back into the reusable process, has heavy environmental benefits and greatly impacts a lower carbon footprint on the entire process," Hernandez said.

According to Rick Boeving, AIA, LEED AP BD+C, and senior architect at Allen & Hoshall, there are other LEED credits that contribute to the overall goal of diverting construction materials from the waste stream to landfills. These include specification of products that have recycled content, such as concrete with fly ash or recycled steel materials.

One of the first in the state of Tennessee, Boeving received his LEED Accredited Professional Certification in May 2003. One of the projects Boeving is most proud of, the Executive Air Terminal (FBO) in Chattanooga, Tennessee, was the first LEED Platinum General Aviation Facility in the world, with 100 percent of the construction waste diverted from landfills.

"There is also the practice of building component reuse or reuse of demolition materials for new construction," Boeving said. An example of this may be taking the concrete and bricks from a demolition site and crushing them to be used as a base for road pavement on a new site. Another example is taking carpet from one demolition site and sending it back to the manufacturer, where it is reprocessed to produce new carpet.

### Challenges aplenty

A few of the challenges of recycling materials during the LEED construction process include organizing and placing containers on-site and timely removal and replacement of containers when filled to capacity.

"There's also the need for educating sub-contractors to separate, clean and sort each waste material into the proper recycling container or dumpster," Boeving said. Other challenges involve the location and economics of recycling centers, as well as the value of materials. For example, due to the relatively light weight of plastics, transportation costs may offset the recycling benefits.

The implementation process requires total participation of all the general contractors, subcontractors, waste haulers and recycling centers. As Boeving explained, weekly progress meetings need to be held to discuss cross-contamination of materials, enforcement requirements, waste segregation and co-mingling requirements, and responsibility of moving waste to applicable containers. Record keeping is required to convert all waste materials to weight or volume to calculate

percentage. Waste haul receipts, waste management reports and spreadsheets are mandatory with each transaction to confirm diverted materials have been recycled or salvaged as intended.

And as Bryan Henson, president of Allen Construction explained, in addition, you have to keep track of each load individually, because the version of LEED you're applying for dictates the diversion rate and they won't accept the facility's average diversion rate.

"For us, we eyeball the percentage of contents on a daily basis and then we have a best guess on the percentages," Henson said. "Protocol is to collect each load ticket and calculate percentage either by volume or weight. It's best to do both ways, so that you can get the most advantageous percentage. If you have the space on site, you can get bins for each type of waste, but many LEED builds don't have this luxury."

David Krueger, director at the Institute for Sustainable Business Practice, School of Business at Baldwin Wallace University said that with respect to the demolition or deconstruction of existing buildings, the primary barrier to building material waste is the significantly higher cost of deconstructing, as opposed to demolishing, existing buildings.

"Rust belt cities like Cleveland and Detroit have thousands of buildings waiting upon the wrecking ball," Krueger said. "Unfortunately, deconstruction still costs upwards of ten times what a more simple demolition would cost. Thus, there are clear and unavoidable trade-offs between efficiency and neighborhood safety on the one hand, and waste reduction on the other hand."

### On the horizon

Higher yielded percentages for both post and pre-consumer materials, better integration of recycled content for designers and architects, and low cost sustainable materials will impact the construction industry in client cost savings, reduce material waste and ultimately, recycling construction material waste at the job-site back into a future construction project.

"I see the off-site refabricating of certain materials reducing on-site cutting and waste," Boeving said. "I also predict the diversion of at least three or four separate material waste streams. Other options may be offered including waste incineration in waste-to-energy facilities and the reuse of materials on-site to avoid transportation and hauling costs."

As Krueger explained, waste reduction is obviously a huge and important sustainability goal for the future, as we attempt to move to a "cradle to cradle" future that mimics a "circular economy."

"Globally, our industrial processes are slowly but surely moving in this direction, incrementally making improvements in reducing raw material inputs and waste outputs," Krueger said. "In the future, though, as we move toward a more 'circular' economy that attempts to design out waste from the start, then I think we'll see a steady uptick of recycling/repurposing of building waste upon the death of a building or of recycling of construction waste. Those waste items, eventually, will be better designed for re-use and repurposing."

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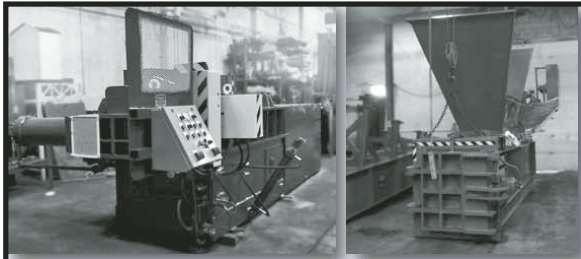


# METALS

## January steel shipments up 7.2 percent from December

The American Iron and Steel Institute (AISI) reported that for the month of January 2016, U.S. steel mills shipped 7,031,307 net tons, a 7.2 percent increase from the 6,556,342 net tons shipped in the previous month, December 2015, and a 9.4 percent decrease from the 7,762,742 net tons shipped in January 2015.

A comparison of January 2016 shipments to the previous month of December 2015 shows the following changes: hot dipped galvanized sheets, up 13 percent, cold rolled sheets, up 12 percent and hot rolled sheets, up 2 percent.



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## February steel import permit applications decreased

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 total 2,283,000 net tons (NT). This was a 20 percent decrease from the 2,841,000 permit tons recorded in January and an 11 percent decrease from the January preliminary imports total of 2,577,000 NT. Import permit tonnage for finished steel in February was 1,854,000, down 16 percent from the preliminary imports total of 2,217,000 in January. For the first two months of 2016 (including February SIMA and January preliminary), total and finished steel imports were 4,860,000 NT and 4,070,000 NT, respectively, down 40 percent and 37 percent from the same period in 2015. The estimated finished steel import market share

in February was 23 percent and is 25 percent year-to-date (YTD).

Finished steel imports with large increases in February permits vs. the January preliminary included oil country goods (up 16 percent).

In February, the largest finished steel import permit applications for offshore countries were for South Korea (350,000 NT, up 46 percent from January preliminary), Turkey (159,000 NT, down 35 percent), Japan (97,000 NT, down 48 percent), Vietnam (78,000, up 31 percent) and China (78,000 NT, down 14 percent). Through the first two months of 2016, the largest offshore suppliers were South Korea (591,000 NT, down 55 percent from the same period in 2015), Turkey (403,000 NT, down 31 percent) and Japan (285,000, down 37 percent).

## CMC closes fence post operation

Commercial Metals Company disclosed the closure of its fence post operations in Magnolia, Arkansas.

Production will be relocated to the San Marcos, Texas fence post production facility, as operations in Magnolia wind down and cease in their entirety by the end of the company's third fiscal quarter. Customers will not be impacted by this decision.

In addition, CMC Steel Arkansas, a rolling mill operated in Magnolia,

Arkansas since 1987, will significantly reduce production levels over the same time period. These decisions are primarily the result of what CMC believes to be unfairly traded and illegally dumped steel products entering the US market. The decision to consolidate production in Texas reflects the impact of unfair trade on several plants and products.

Approximately 40 employees are being impacted by the closure.

## AR Scrap Metals MarketWatch



| Commodity               |               | Zone 1   | Zone 2   | Zone 3   | Zone 4   | Zone 5   |
|-------------------------|---------------|----------|----------|----------|----------|----------|
| #1 Bushelings           | per gross ton | \$161.00 | \$166.00 | \$180.00 | \$189.00 | \$190.00 |
| #1 Bundles              | per gross ton | 162.00   | 163.00   | 179.00   | 211.00   | 185.00   |
| Plate and Structural    | per gross ton | 170.00   | 172.00   | 189.00   | 209.00   | 196.00   |
| #1 & 2 Mixed Steel      | per gross ton | 180.00   | 178.00   | 181.00   | 174.00   | 184.00   |
| Shredder Bundles (tin)  | per gross ton | 106.00   | 111.00   | 105.00   | 145.00   | 149.00   |
| Crushed Auto Bodies     | per gross ton | 104.00   | 110.00   | 104.00   | 141.00   | 149.00   |
| Steel Turnings          | per gross ton | 87.00    | 85.00    | 90.00    | 129.00   | 120.00   |
| #1 Copper               | per pound     | 1.96     | 2.05     | 1.91     | 1.94     | 2.08     |
| #2 Copper               | per pound     | 1.80     | 1.95     | 1.79     | 1.80     | 1.94     |
| Aluminum Cans           | per pound     | .57      | .55      | .57      | .57      | .57      |
| Auto Radiators          | per pound     | 1.35     | 1.40     | 1.41     | 1.34     | 1.40     |
| Aluminum Core Radiators | per pound     | .48      | .52      | .51      | .51      | .50      |
| Heater Cores            | per pound     | .99      | .99      | .99      | 1.05     | 1.15     |
| Stainless Steel         | per pound     | .42      | .43      | .42      | .41      | .46      |

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

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



## METALS

# Steel imports increase 10 percent in January

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

|              | JAN 2016     | DEC 2015     | 2016 Annualized | 2015 Full Year | % Change 2016 Annual vs. 2015 |
|--------------|--------------|--------------|-----------------|----------------|-------------------------------|
| TURKEY       | 244          | 182          | 2,928           | 2,823          | 3.7%                          |
| SOUTH KOREA  | 241          | 235          | 2,887           | 4,854          | -40.5%                        |
| JAPAN        | 188          | 144          | 2,251           | 2,259          | -0.3%                         |
| BRAZIL       | 154          | 69           | 1,845           | 1,437          | 28.4%                         |
| GERMANY      | 121          | 122          | 1,449           | 1,515          | -4.4%                         |
| AUSTRALIA    | 100          | 23           | 1,203           | 330            | 264.4%                        |
| CHINA        | 91           | 136          | 1,092           | 2,374          | -54.0%                        |
| All Others   | 1,079        | 1,126        | 12,948          | 15,852         | -18.3%                        |
| <b>TOTAL</b> | <b>2,217</b> | <b>2,037</b> | <b>26,602</b>   | <b>31,445</b>  | <b>-15.4%</b>                 |

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,577,000 net tons (NT) of steel in January 2016, including 2,217,000 NT of finished steel (up 10.0 percent and 8.8 percent, respectively, vs. December final data).

Year-to-date (YTD) total and finished steel imports are 2,577,000 and 2,217,000 NT, respectively, down 41 percent and 38 percent respectively, vs. the same period in 2015. Finished steel import market share was an estimated 26 percent in January.

Key finished steel products with a significant import increase in January

compared to December 2015 are oil country goods (up 107 percent), standard pipe (up 68 percent), hot rolled sheets (up 53 percent), line pipe (up 47 percent), structural pipe and tubing (up 43 percent), plates in coils (up 25 percent) and wire drawn (up 12 percent).

In January, the largest volumes of finished steel imports from offshore were from Turkey (244,000 NT, up 34 percent vs. December final), South Korea (241,000 NT, up 2 percent), Japan (188,000 NT, up 31 percent), Brazil (154,000 NT, up 124 percent) and Germany (121,000 NT, down 1 percent).

■ For more METAL RECYCLING NEWS, see page B1

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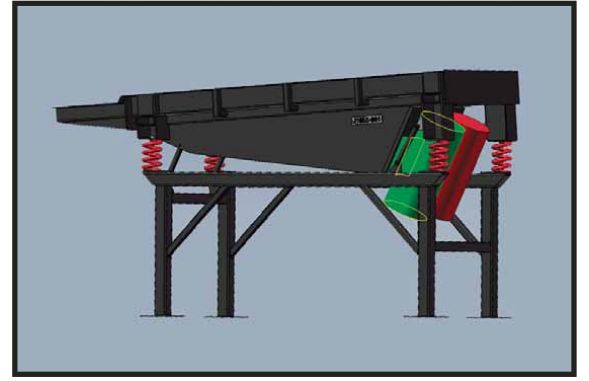
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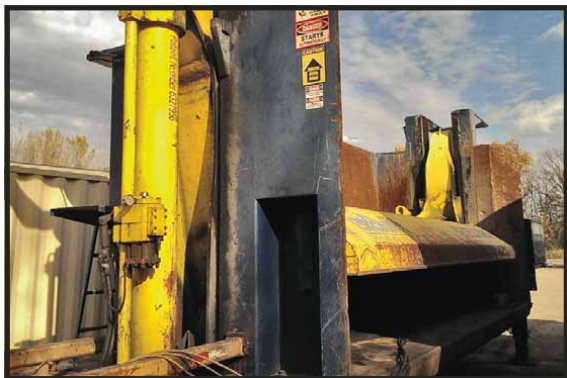
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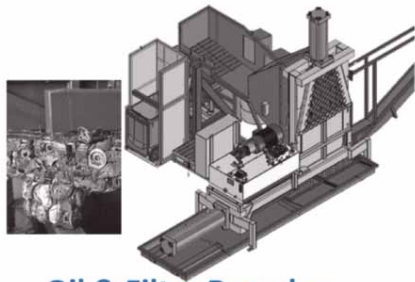


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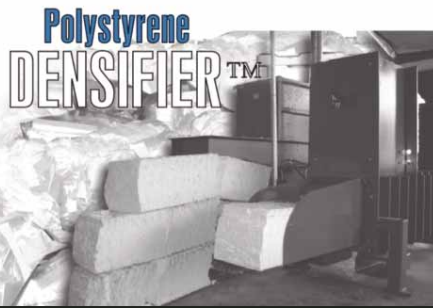
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**ALTERNATIVE ENERGY**

**New York to train military personnel for solar jobs**

New York Governor Andrew M. Cuomo said that New York will participate in the U.S. Department of Energy's Solar Ready Vets training program, which will provide military personnel stationed at Fort Drum, New York with technical skills to obtain jobs in the growing solar industry after they transition from active service. This is the first Solar Ready Vets training cohort in New York, and just the eighth offered at military installations in the U.S. The inaugural New York-based class under the program began in January.

In September 2014, the U.S. Department of Energy launched the Solar Ready Vets program to prepare veterans for post-military careers as solar installers, sales representatives, system inspectors or other solar-related occupations. The program is aligned with the Department of Defense's SkillBridge initiative, which allows military personnel to obtain job training up to six months prior to their separation from military service.

The Fort Drum program was created through collaboration among the New York State Energy Research and Development Authority, U.S. Department of Energy, Fort Drum, SUNY Canton and solar installation companies. Instructors from SUNY Canton will teach five-week classes focusing on technical training in solar skills, including hands-on labs. In addition, the program will facilitate job placement with New York solar PV companies for the trained transitioning military personnel. Nearly 3,600 service members transition from Fort Drum each year, and this new program will be available to assist them in their transition to civilian life.

NYSERDA provided support for the program startup costs, including curriculum development and training for the first 125 veterans to participate through five cohorts of 25. There is no cost for Fort Drum personnel in these first cohorts. Service members may use GI Bill benefits to cover the cost of training after this.

**Caterpillar works with greenhouse**

Caterpillar Inc. and SunSelect Produce, Inc. disclosed a collaboration that will take the waste products of Caterpillar's combined heat and power cogeneration facility in Mossville, Illinois and put them to productive use in SunSelect hydroponic greenhouses.

SunSelect will purchase real estate adjacent to Caterpillar's energy generation facility, Advanced Tri-Gen Power

Systems (ATPS), to construct a hydroponic greenhouse. The greenhouse is expected to utilize excess thermal energy and carbon dioxide from ATPS's natural gas fired turbines.

The SunSelect greenhouse will operate with a year-round growing season. The greenhouse operations are expected to add up to 300 permanent local jobs when fully operational.

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# INTERNATIONAL

## Covanta contracts for Dublin waste-to-energy facility

Covanta has executed a long term waste supply contract for the Dublin Waste-to-Energy Facility with Panda, one of the leading waste and recycling collection companies in Ireland. To date, 60 percent of the facility's waste processing capacity has been secured under long-term contract.

"We are pleased to have made significant progress in securing waste contracts on terms consistent with our market expectations, and we continue to see very strong local market demand for the facility's capacity as we look to secure additional volumes," said Covanta president and chief executive officer Stephen J. Jones. "Construction of the facility continues to progress on schedule and is over 50 percent complete. We look forward to delivering a state-of-the-art waste and energy solution to the Dublin Region in late 2017."

The Dublin Waste-to-Energy project is a Public Private Partnership (PPP) between Covanta and Dublin City Council (acting on behalf of the four Dublin Local Authorities) that will provide the Dublin region with a long-term sustainable and environmentally superior waste management solution, enabling it to divert post-recycled waste from landfills and become locally self-sufficient in managing waste, consistent with regional, national and EU waste policies.

When complete, the Dublin facility will process approximately 600,000 metric tons of waste annually and will generate clean energy to supply 80,000 homes, reducing Ireland's reliance on imported fossil fuel.

Under the project agreement with the Dublin regional authorities, Covanta is responsible for sourcing waste supply for the facility, which will consist of residential, commercial and industrial waste streams from Dublin and surrounding areas.

## Quebec's bag industry wants bag ban reconsidered

The plastic bag industry in Quebec is calling on the City of Brossard to reconsider its ban on plastic shopping bags because the municipality's decision to ban the bags as of Fall 2016 is based on out-of-date data that is nearly 10 years old and is not relevant to today.

Ninety three percent of all plastic bags are reused and recycled.

Indeed, the recycling rate of 14 percent that is being used by the city to justify its decision to ban is a 2007 recycling rate and is completely outdated. Unfortunately this 14 percent recycling rate seems to be guiding other area municipalities in the direction of bans.

According to the Canadian Plastics Industry Association (CPIA), Quebecer's habits have changed so much since 2007, that, today, 93 percent of all bags are reused (60 percent) or recycled (33 percent). A Technical Report tabled with Recyc Quebec in 2015 outlines in detail the most up-to-date bag reduction, reuse, and recycling data in Quebec.

"In fact, plastic bags are not single-use bags, but multi-purpose and multi-use. As a result of awareness campaigns conducted since 2007, Quebecers have embraced the 3R's and the responsible use of bags making the province's bag management system an environmental model for the world," explained Marc Robitaille, chief executive officer of Saint-Hubert-based Omniplast and industry member of CPIA.

The majority of bags used in Quebec represent only 0.27 percent of all waste that is landfilled, according to the CPIA.

According to a survey conducted by CROP in May 2015 in Montreal, 87 percent of people reuse their plastic bags; 78 percent reuse them to manage household waste; 15 percent reuse them for pet waste; and 29 percent of people recycle their bags. Only 5 percent of Montrealers discard them.

"If plastic bags are banned, residents will be forced to buy heavier plastic kitchen catchers to manage their waste. These bags contain 74 percent more plastic and are 2 to 3 times more expensive than a plastic shopping bag," said Robitaille. "The ban will have a double negative effect on the environment and people's budget. Everyone loses."

Economically, Brossard's decision to ban plastic bags could put in jeopardy thousands of jobs in Quebec in an industry that generates 9,500 direct and indirect jobs, including on the South Shore of Montreal. Indeed, plastic bags are produced in Quebec using a derivative of natural gas, clean energy, while most reusable bags are manufactured in Asia and cannot be recycled.

"In fact, when it is reused or recycled, the plastic bag is a sustainable solution. That is why we invite Brossard elected officials to delay their decision until they carry out an impact study," added Robitaille whose company, Omniplast, located in Saint-Hubert employs some 100 workers at his Saint-Hubert manufacturing facility; many of which live in Brossard.

Over the past 10 years, more than 100 governments and associations in Canada, including Quebec in 2008, studied the effectiveness of measures to ban or tax plastic bags and discarded them because other solutions based the 3Rs (reuse, reduce and recycle) proved more effective.

## Earth Rangers recycle almost 20,000 batteries

Canada's national consumer battery recycling stewardship organization, Call2Recycle Canada, Inc. partnered with Foundations for the Future Charter Academy, Southwest Campus, Calgary, an Elementary School with nearly 500 students and staff, to keep batteries away from the Alberta landfills.

Students Reem and Adam Kaber became involved in Earth Rangers Battery Blitz which motivated them to recycle batteries to preserve the environment. The children learned that used batteries are used to make various items from new batteries to stainless steel products, helping to conserve our natural resources.

The Kaber family approached Call2Recycle who supported their idea to launch a Battery Recycling Challenge at their school. The efforts of the Foundations for the Future Academy, resulted in almost 20,000 batteries being collected by the students. "Grade 4 and their teacher Adrianna Snihura came out on top by collecting 5,474 batteries", said Lorie Skaper-Burtch, principal of the school.

The second prize winner was Grade 3 and their teacher Penny Meyer who collected 4,429 batteries. Erin Payne was awarded the Teacher Champion Award for believing in the program and motivating the students. The stars of the show were Reem and Adam Kaber who won the Student Champion Awards for introducing the contest.

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## WASTE

## Graduate scholarships in waste research available

The Environmental Research and Education Foundation (EREF) is one of the largest sources of solid waste research funding in the U.S., allocating approximately \$1 million annually in research grants and graduate level scholarships. Thus far, over 50 students have been EREF scholars, many of whom are now in key academic and professional positions across the U.S. EREF is pleased to announce that scholarship applications for the 2016-2017 academic year are now available. The application deadline is May 4, 2016.

Applications will be considered from those who:

- Will be this year or are now a full-time master's or doctoral student, and
- Have a clearly demonstrated interest in solid waste management research. EREF defines solid waste management to pertain to municipal solid waste, construction & demolition waste, industrial waste (e.g. coal ash), WTE ash, etc. Note this definition does not include agricultural wastes or wastewater treatment plant sludge.

EREF Scholarships recognize graduate students pursuing excellence in solid waste management research and education. Recipients are chosen based on credentials and potential in the solid waste industry and its scientific community.

Awards are based on academic performance, professional experience, relevance of one's work to the advancement of

solid waste management science and on their potential for success.

Award amounts consider the cost of tuition at the recipient's institution and any other funds received. Full scholarships may not be awarded to students who will be receiving full-tuition scholarships from other sources (excluding direct university assistance such as tuition remission or assistantship income) but may still be considered for partial awards.

Doctoral scholarships are awarded up to a minimum of \$14,400 per year and paid monthly. Doctoral/post-doctoral scholarships are renewable each year to a maximum of three years from the initial award date. Master's scholarships are awarded up to a minimum of \$6,000 per year and renewable each year to a maximum of two years from the initial award date. Scholarship renewal is dependent upon satisfactory progress as determined by the student's academic advisor.

All qualified candidates will be considered for scholarships without regard to race, religion, national or ethnic origin, citizenship, or disability. Applications from students outside the United States or studying abroad will receive equal consideration. Award decisions by the Environmental Research and Education Foundation and its directors are final and not subject to appeal.

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

## Waste Management exceeds 2015 expectations

Waste Management, Inc. disclosed financial results for its quarter ended December 31, 2015.

Revenues for the fourth quarter of 2015 were \$3.25 billion compared with \$3.44 billion for the same 2014 period. Net income for the quarter was \$273 million, or \$0.61 per diluted share, compared with net income of \$590 million, or \$1.28 per diluted share, for the fourth quarter of 2014. On an as-adjusted basis, net income would have been \$320 million in the fourth quarter of 2015 compared with \$278 million in the fourth quarter of 2014.

The company's fourth quarter 2015 results have been adjusted to exclude approximately \$0.10 per diluted share of net after-tax charges primarily related to the impairment of certain assets as a result of the pronounced decrease in oil and gas prices. The company's as-adjusted fourth quarter 2014 results exclude a tax affected \$0.68 per diluted share impact primarily from the sale of the company's waste-to-energy business and other assets divested in 2014.

For the full year 2015, the company reported revenues of \$13 billion, compared with \$14 billion for 2014. Earnings per diluted share were \$1.65 for the full year 2015 compared with \$2.79 for the full year 2014. On an as-adjusted basis, earnings per diluted share were \$2.61 for the full-year 2015 versus \$2.30 for the full-year 2014.

In the fourth quarter, the company saw a \$50 million increase in internal

revenue growth from its traditional solid waste business and a \$59 million increase in revenues from acquisitions. However, overall revenue declined by 5.6 percent, or \$191 million. That revenue decline stemmed from a \$163 million decline from divestitures, \$43 million in lower fuel surcharge revenues, \$34 million in lower recycling revenues, and \$33 million in foreign currency fluctuations. For the full year, the company saw a \$157 million increase in internal revenue growth from its traditional solid waste business and a \$174 million increase in revenues from acquisitions. These increases were offset by a \$762 million decline from divestitures, \$211 million in lower recycling revenues, \$171 million in lower fuel surcharge revenues, and \$126 million in foreign currency fluctuations.

Traditional solid waste business internal revenue growth from volume was slightly positive in the fourth quarter of 2015, an improvement of 60 basis points versus the fourth quarter of 2014. Total company internal revenue growth from volume declined 0.9 percent in the fourth quarter, an improvement from a negative 1.4 percent in the third quarter of 2015. Total company volume declined 1.6 percent for the full year 2015.

The company paid dividends of \$172 million to shareholders in the fourth quarter. For the full year, the company returned almost \$1.3 billion to shareholders through \$695 million in dividends and \$600 million in share repurchases.



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## INDUSTRY PROFILE

## A Closer Look

by Donna Currie

## Alpine Waste &amp; Recycling

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John Griffith started his career in retail management, but quickly realized that he “didn’t want to wear a name tag.” At the same time, he had friends who were working in outside sales and he realized they had weekends off and didn’t have to work holidays or evenings. It sounded much better than what he was doing.

When he tried to find that sort of work, there was only one company willing to take him on since he didn’t have experience, and that was a waste company.

When that company got bought out by another one, he suspected that his position would eventually disappear and “that eventually turned into a reality.” Rather than looking for another job, he decided to start his own waste hauling company.

Griffith founded Alpine Waste & Recycling in 1999 with just one employee. Originally, he thought he could simply hire a truck driver to pick up the trash, but a co-worker at his previous job, Tom Reed, advised him that he needed someone who could not only do the driving, but could do the regular maintenance as well as truck repairs.

“The company would have been dead in the water very early on,” Griffith said, if he had gone with the original plan.

Griffith ended up hiring Reed to drive and do the maintenance, but then Reed suggested that Griffith should learn how to drive a truck – so he did. Their territory at the beginning was “one avenue and not much more than one block off of that.”

Today, the company has about 100 vehicles and 200 employees, and Tom Reed is the plant manager at the company’s MERF. The majority of their customers are local businesses, but they also pick up from some homeowners associations.

The company has racked up an impressive number of “firsts” including being the first in the area to offer single-stream processing, the first to collect organic materials and do compost processing, the first to collect and recycle Styrofoam, aseptic milk cartons, and several different grades of plastics.

Griffith said that one of the advantages of being a small company and an independent owner is that “you can see trends.” He said that his business model is very fluid which allows them to change with those trends. “While others are focused on filling the landfills,” he said, “we’ve found a good niche with sustainability.”

He also said that his competitors view the business as a commodity and their selling is based on price, but “we have value-added service” which can be harder to sell to customers.

One thing his company offers to customers is monthly sustainability reports. Each truck is equipped with a scale that weighs each load, and customers receive a detailed report of their trash, composting, and recycling, including comparisons of the same data over time as well as comparisons with similar companies.

Recently, the company was awarded a grant from the Foam Institute that allowed them to purchase a foam densifier that slightly melts and compresses Styrofoam into blocks for economical shipping.

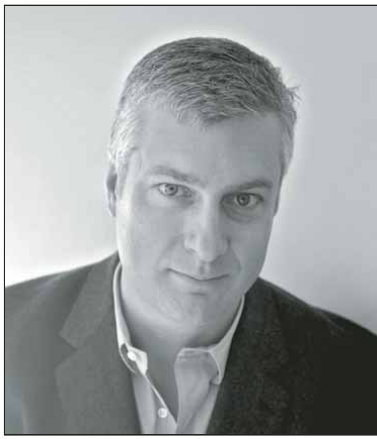
Looking forward, Griffith expects that his company will continue the same yearly growth rate of 30 percent that it has experienced in the past. It’s that growth that turned his grassroots company, built from the ground up, into the largest independent business in Colorado.

“We provide an unprecedented level of service in our industry,” he said, and “more comprehensive procedures that better meet their needs.” He explained that he started the company based on service, courteousness, and quick call-backs, and those are still a very important part of the company culture.

While he anticipates growth, he doesn’t make long-term projections as to what the direction the company might take, or what materials might be the next that can be recycled rather than landfilled. “We let our customers and market trends dictate to us,” he said.

Besides running his own company, Griffith is on the board of Blue Star Recyclers, which employs people with autism. Blue Star has almost no turnover, no lost-time accidents, and it also provides a social environment for employees. While Alpine Waste supports many other charities, this one is special to Griffith, since he has a son with autism.

While Alpine Waste & Recycling isn’t a family business, Griffith’s brother-in-law is the chief financial officer of the company. Griffith was quick to point out that his brother-in-law has the job because he’s good and not because he’s family. “I tell him he’s the brains and I’m the looks,” Griffith said, “but he hasn’t decided if it’s a compliment or not.”



—John Griffith

## PAPER

## Carton recycling access reaches new heights

The Carton Council of North America disclosed that carton recycling made great progress in 2015, with 57 percent of U.S. households now reporting access to carton recycling. Thanks to collaborative industry efforts and support from communities nationwide, 67.1 million households across 48 states can now recycle their food and beverage cartons through curbside and drop-off programs.

Since the Carton Council was formed in 2009, efforts have been focused on building the infrastructure for aseptic and gable-top carton recycling. At that time, just 18 percent of U.S. households could recycle the cartons they consumed through their local recycling programs. Fifty-seven percent

represents a 217 percent increase in carton recycling access.

Metro Las Vegas, Nevada, rolled out a single stream recycling program in late 2015 that allows them to begin collecting more recyclables, including cartons. This represents more than 700,000 new households. A sampling of other notable communities that added cartons to their local programs last year include Jefferson County, Missouri; Santa Fe, New Mexico; Harrisburg, Lancaster and York, Pennsylvania; Riverside County and parts of Orange County, California; Greenville and Jacksonville, North Carolina. In total, the number of carton recycling communities rose to 11,500, which represents 80 of the top U.S. 100 communities.

## The Atlanta Journal-Constitution first newspaper to achieve zero waste

The Atlanta Journal-Constitution (AJC) has been awarded the gold level certification from the U.S. Zero Waste Business Council (USZWBC) for successfully diverting nearly 99 percent of its waste from landfill, incineration and the environment. This is the nation’s first newspaper printing facility to receive certification from the USZWBC.

USZWBC audited the Zero Waste diversion processes at the AJC’s printing facility and found that the location is

successfully reducing, reusing, recycling and composting materials. The facility annually diverts more than 5,000 tons from landfills, which was achieved through operational and employee education programs.

In addition to its commitment to waste reduction, the AJC’s printing facility recently pledged to reduce its energy and water consumption by 20 percent in 10 years through Atlanta’s Better Buildings Challenge.

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**PAPER**

**Sonoco Recycling in Durham earns NC Star certification**



Sonoco Recycling, LLC became certified in the North Carolina Department of Labor's STAR Consultation Program in February, 2016. Sonoco Recycling's Durham team was awarded the coveted NC STAR Award by Cherie Berry, North Carolina commissioner of labor, and Kimberly Bostic, NC STAR program consultant.

The STAR Program is designed to recognize and promote an effective safety and health management system, and recipients are self-sufficient in their ability to control hazards at the worksite. Through the program, management, employees and the N.C. Department of Labor establish a cooperative relationship in the workplace. Star participant sites generally experience from 60 percent to 80 percent fewer lost workday

injuries than would be expected of an "average" site of the same size in their industries.

"Sonoco Recycling is committed to maintaining a world-class safety and health program with the sole focus of ensuring we all go home the way we arrived to work," said Mike Pope, general manager and president of Sonoco Recycling, LLC.

There are about 150 STAR sites in all of North Carolina, and Sonoco Recycling now claims two of those sites. The teams started working toward certification in 2015.

A leader in recycling, Sonoco Recycling collects more than 3.5 million tons of paper, plastic, metal and other materials annually.

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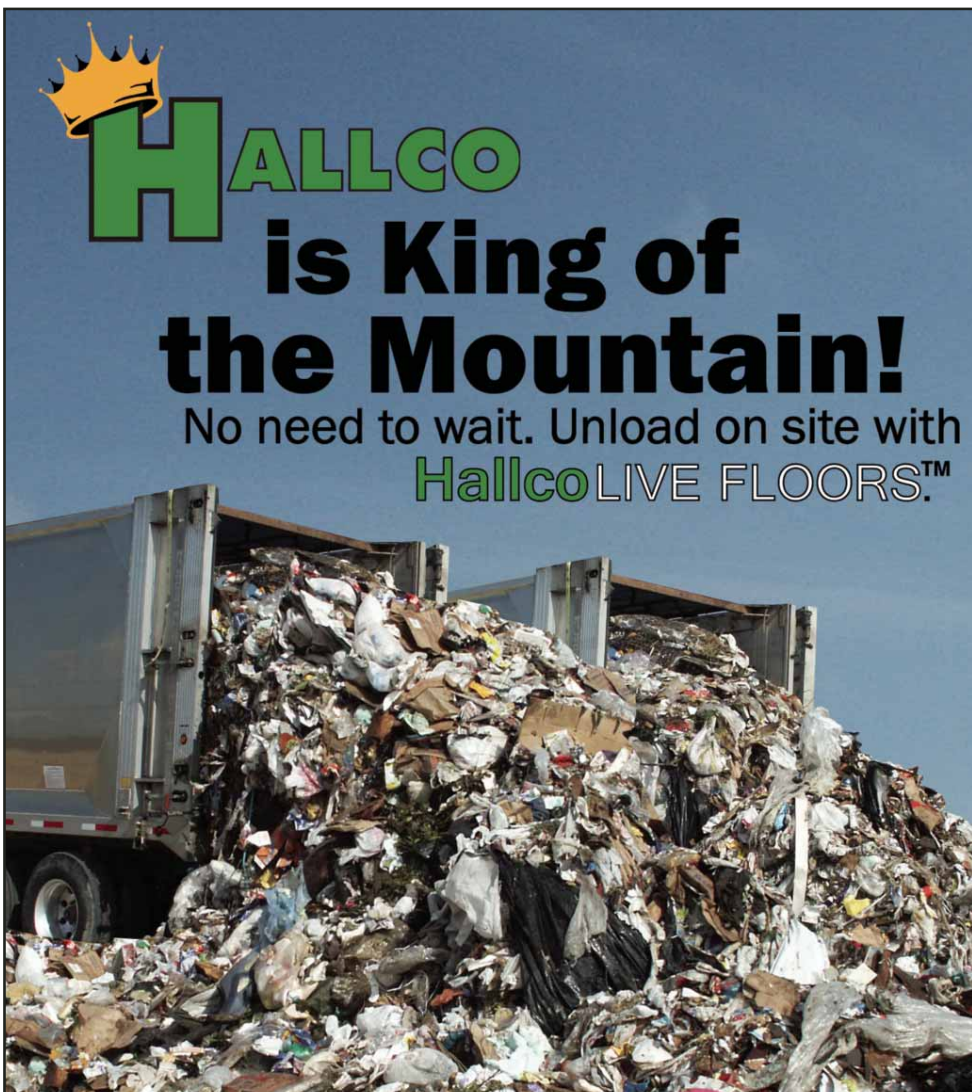


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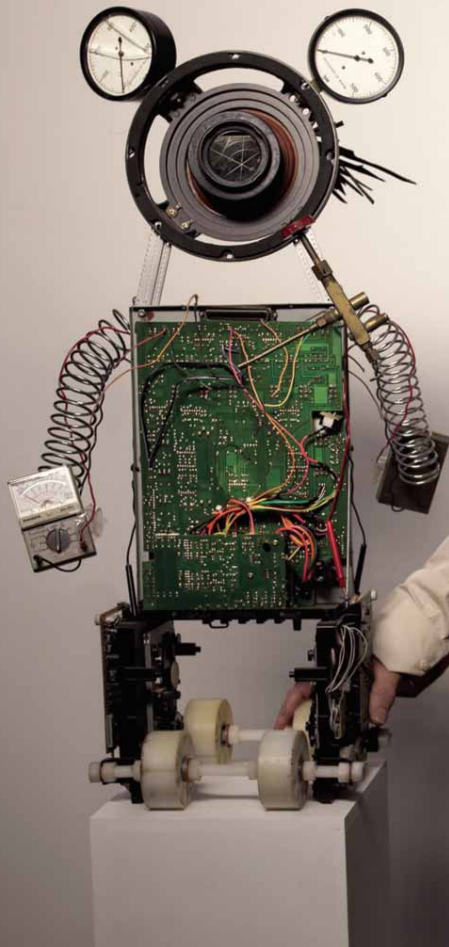


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## BUSINESS BRIEFS

### Paul Schuitt named JWC's regional sales manager

■ Paul Schuitt has joined JWC Environmental as the western regional sales manager for the municipal wastewater market.

Schuitt brings over 31 years of operations and maintenance experience in the water and wastewater industry and 16 years of equipment sales, service and consulting as principal of GPS Environmental, LLC. Prior to joining JWC Environmental, Schuitt managed a number of advanced water and wastewater system in challenging environments throughout Alaska and Arizona. In addition, he has provided troubleshooting and consulting services for utilities throughout Alaska.

Schuitt holds level IV certifications in water treatment and wastewater treatment, a Level I certification in wastewater collection and a Level I certification in water distribution in Alaska and Arizona.

Schuitt will be based out of Phoenix, Arizona.

### Petersen Industries names new Virginia dealer

■ Petersen Industries, Inc., manufacturer of grapple trucks and bulky waste collection systems, has added Virginia Public Works Equipment (VPWE) to their expanding dealer network. They are now the exclusive Petersen Industries' dealer for all of Virginia, Maryland, and the District of Columbia. Petersen is excited about the prospect of growth in this territory with VPWE's determined management and sales team.

### Sennebogen names Roman as Uruguay dealer

■ One of South America's specialists in forestry equipment has been named to represent the full line of Sennebogen purpose-built material handlers in Uruguay.

Roman Soluciones Forestales, based in Montevideo, Uruguay, has been added to the firm's network of distributors. Roman will support customers in Uruguay's logging industry, as well as those involved with scrap, waste, recycling and port activities.

### Yard Works acquires Waltrip Recycling

■ Yard Works has completed the acquisition of Waltrip Recycling, Inc.'s assets.

This marks the Richmond-based landscape product company's expansion into the Greater Williamsburg area, with its sixth retail location. Yard Works will begin servicing former Waltrip residential and commercial clients immediately, by bringing its brands of mulch and other land improvement products and services to the market. Yard Works is Central Virginia's leading manufacturer of landscape products, providing recycling and land clearing services.

"Yard Works is very excited about expanding our operations into Williamsburg, Jamestown and Yorktown," said Yard Works chief operating officer Robbie Urbine.

To bolster operations at the Williamsburg retail location, Yard Works will be adding new staff, services and products.

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US Tire & Retread Expo, April 19-21, New Orleans,  
Booth #338



## BUSINESS BRIEFS

### Laslavic named Fuchs national account manager

■ Anthony Laslavic is now a regional sales manager (RSM) and national accounts manager for Fuchs material handlers. In his new position, Laslavic will work closely with customers and the entire Fuchs sales team to strengthen distribution of the material handler line throughout North America, particularly at the national account level.

Prior to joining Fuchs, Laslavic handled distributor and national account development for Sennebogen, where he was held responsible for introducing the material handler line to the North American market. He also worked in the management development program with Konecranes, where he began as a technician in the field and worked his way up to managing the lifting equipment manufacturer's northeast branch.

Laslavic will work with national account customers and Fuchs distributors from a field office in Pittsburgh, Pennsylvania.

### Advanced Disposal acquires Tatum Sanitation

■ Advanced Disposal, an integrated environmental services company, has completed the acquisition of assets of Tatum Sanitation, based in Canton, Georgia.

The acquisition included vehicles and residential customers in Cherokee County, Georgia and will be operated out of their existing Atlanta North facility.

### Progressive Waste Solutions appoints Dan Pio as CEO

■ Progressive Waste Solutions Ltd. Disclosed that Dan Pio, Executive vice president and chief integration officer, has been appointed chief executive officer. Joseph Quarin is stepping down from the role of president and chief executive officer and from the company's board of directors to pursue other opportunities. The chief executive officer succession follows Progressive Waste Solutions' announcement that Quarin planned to step down during the integration period of the company's proposed combination with Waste Connections Inc.

Pio, who has been leading the company's integration efforts for the combination with Waste Connections, will now also assume primary responsibility for Progressive Waste Solutions' operations. The transaction is expected to close in the second quarter of 2016.

### ACT Construction chosen as new Bandit dealer

■ ACT Construction Equipment, based in Charleston, North Carolina, has joined Bandit Industries' growing network of authorized dealers. ACT is stocking Bandit's compact line with a wide range of hand fed chippers and stumpers in stock and ready to show and demonstrate. They are trained to service hand fed chippers and stump grinders.

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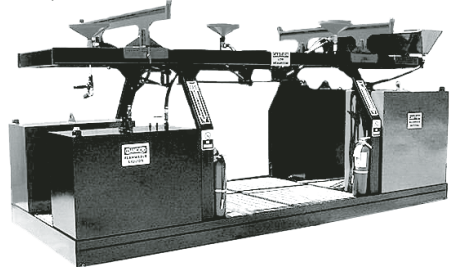
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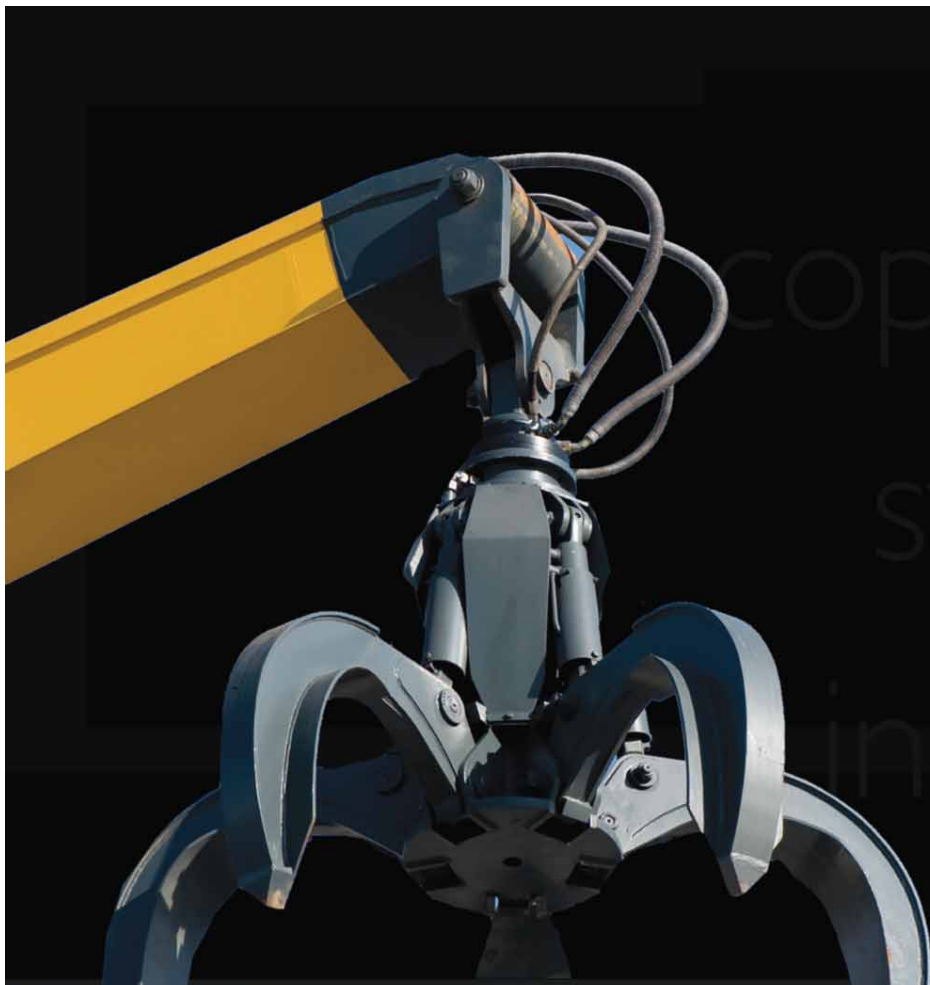
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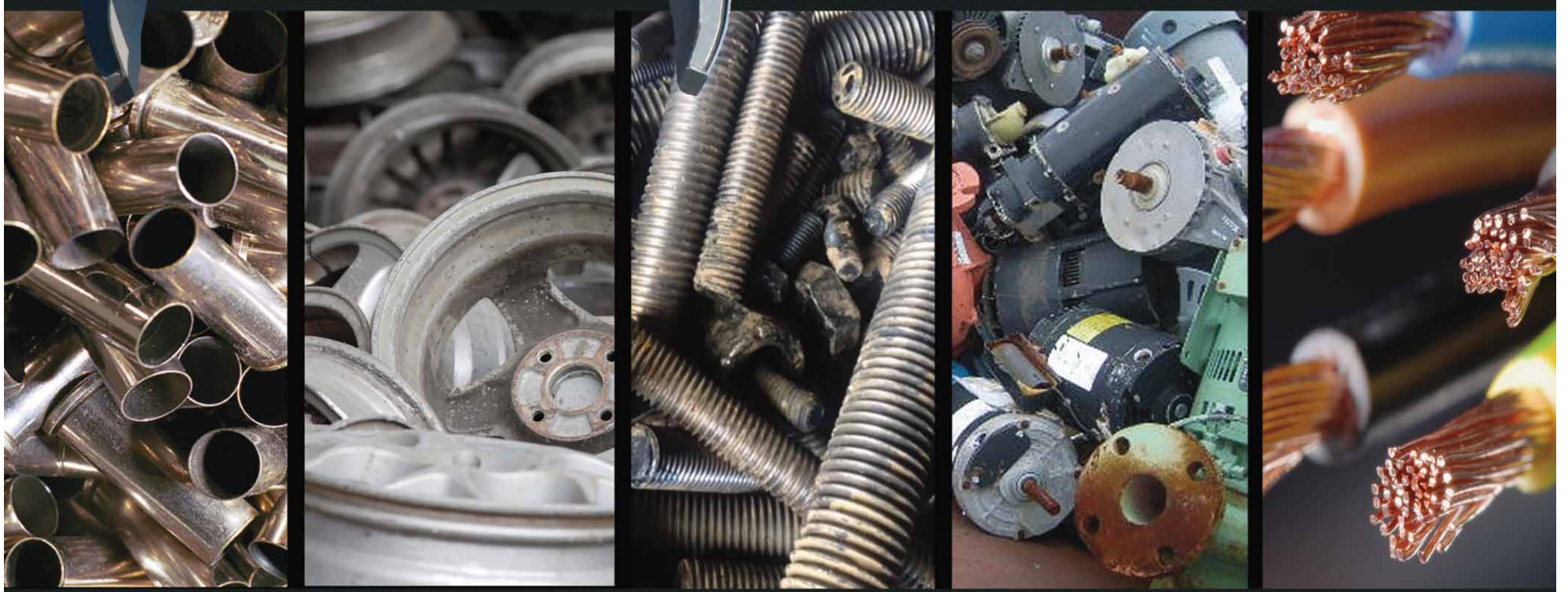
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# Imported steel impacts domestic production

by MAURA KELLER

[mkeller@americanrecycler.com](mailto:mkeller@americanrecycler.com)

As one of the most recycled metals on the planet, steel has offered an extremely high recycling rate, which as recently as 2012, stood at 88 percent. However the recycled steel industry has been a cyclical one, with both up and down months, relating to both price and demand. Since January 2014, we've seen roughly a 60 percent decline in pricing, with only a couple of modest "up" months, only to be followed by a continuing downward trend.

According to the Steel Recycling Institute (SRI), the overall steel recycling rates for 2013 was 81 percent, down from 92 percent in 2011. Likewise, the steel automotive rate for 2013 was 85 percent, down from 95 percent in 2011 and the recycling rates of steel appliances for 2013 was 82 percent down from 90 percent in 2012. The steel recycling rate is an expression of the quantity of scrap reprocessed as a percent of the volume of scrap available. It doesn't indicate the recycled content of steel.

According to the January 2016 U.S. Geological Survey, Mineral Commodity Summaries, China's slowing GDP growth and continued high production rate of crude steel is having a significant effect on the expansive steel supply. Three years ago, in 2013, China had an estimated 35 to 40 percent more steel-making capacity than it needed. As the U.S.G.S. states, in 2015, "Chinese surplus steel sales continued to expand into other industrialized countries with steel-making capability, such as the U.S., reducing the consumption of U.S. domestic crude steel production." Also, the rise in steel imports from 2013 to 2014 was sustained through 2015, creating a difficult competitive market for domestic iron and steel products in the U.S. Imported steel adversely affected U.S. domestic production in 2015, resulting in idled or permanently closed iron and steel operations across the country.

According to Brett Muckle, president of Asset X, gone are the days when you could build up steel inventories in the summer months when pricing was low, and sell in the winter when prices were considerably higher. Recyclers must focus on turning inventory as quickly as possible to mitigate price volatility, reduce operating expenses to remain as healthy as possible, and watch receivables.

While there are a myriad of causes of the volatile steel recycling market, including China's role, one impact on the recycled steel industry is dropping oil prices, which have had a big impact on steel demand. Declines in the consumption of goods in the U.S. domestic energy sector, especially in the development of new oil and natural gas projects, has contributed to reduced steel demand. As the level of fracking has dropped, so too has the need for steel for oil fracking equipment and oil rigs.

However, as Andrew Babcock, director of inventory strategies at Tiger Capital Group, explains, the oil and gas industry is not an extremely large driver of steel consumption, probably accounting for about five percent of domestic consumption. Tiger Capital Group is a leading provider of asset valuation, advisory and disposition services to a broad range of industrial, retail and wholesale clients.

"In terms of steel demand, one should look at the ripple effects of dropping oil prices on the global economy," Babcock said. "The construction industry is the main consumer of steel products, so slumping oil prices slow construction in markets that are heav-



As some steel mills close sites, the lead-time for new steel has increased and the demand has increased for some steel products. As such, this increased demand and increased lead time resulted in an increase in price in some recycled metals.

PHOTO BY MAREK JELINEK | DREAMSTIME

ily reliant on oil, particularly Brazil, Russia and the Middle East."

Capacity utilization rates at U.S. steel mills are near 70 percent, which is down roughly 7 percent from a year ago. Muckle would argue any industry that operates at 70 percent of their capacity is not healthy, and these figures are probably skewed because the flat roll mills, which supply the "red hot" auto industry, are doing well.

"If you were to only look at steel mill production, excluding flat roll, I believe the capacity utilization rates would be far lower," Muckle said. An example is France-based Vallourec Star's 3 week shut down of their \$1 billion Youngstown, Ohio steel mill, which produces oil country piping.

Vallourec Star is also offering voluntary six month layoffs, and is monitoring the oil and gas market for further "blackouts."

As Muckle explained, this is one mill, with 1,000,000 tons of designed annual output capacity dedicated to the energy sector. The "trickle down" economics of this and numerous mills operating well below capacity has had an enormous affect including the continued rash of bankruptcies in everything from scrap yards at one end of the supply chain, to steel service centers on the other end.

"The long list of scrap yard shutdowns such as Sims Metals closing 35 locations, is only further proof of the metals sectors' downward spiral," Muckle said.

Richard Reese, chief executive officer of Rabin Worldwide, a company that specializes in industrial auctions, has conducted several metal scrapping auctions throughout its history. Reese has firsthand knowledge regarding trends in the metals recycling industry, and, as such, is seeing a decrease in demand for support industries such as trucking, crane services, machining, fabricating – all of which are built of steel.

"An increased amount of this type of equipment is now coming into the used marketplace as a

result," Reese said. "Availability equates to less demand for recycled metals, including steel, resulting in lower prices paid for recycled metals. Extraction, preparation and shipping prices have remained the same, however, which makes them cost-prohibitive."

In selling surplus assets, metal and steel play an important role. At the height of prices four years ago, salvage companies were competing with end users for materials.

"Scrap iron, which was going for nearly \$400 per ton and made profit for everyone involved, has become too costly to extract and prepare for current demand," Reese said.

What's more, the prices within the recycled steel industry are down considerably. "Companies that rely on collateral value, particularly of inventory, will likely have some liquidity constraints over the next 12 months," Babcock said. "Against this backdrop, metal recyclers should pay attention to global demand, pricing, export markets, and industry outlooks for end users of steel."

As some steel mills close sites, the lead-time for new steel has increased and the demand has increased for some steel products. As such, this increased demand and increased lead time resulted in an increase in price in some recycled metals.

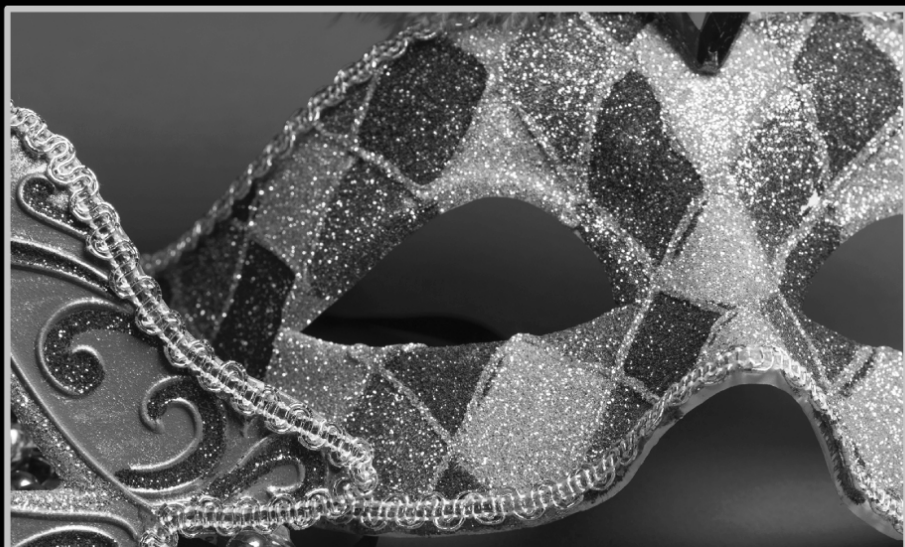
"There is still too much steel-making capacity both globally, and domestically," Muckle said. "Any increase in lead times is a function of mills keeping stocking levels low, rather than an increase in their order books. With so much price volatility in the market, steel mills are carrying much smaller inventories to mitigate pricing risk, and thus it takes longer to satisfy orders"

So what does this shifting in steel demand and availability mean for the recycled metals business? Are there certain areas of recycled steel that are being requested more than others?

See STEEL IMPORTS, Page B7



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## Dominion Virginia Power resumes appliance recycling

Dominion Virginia Power is resuming its Residential Appliance Recycling Program after a brief hiatus.

In addition to receiving a \$50 incentive from Dominion, consumers have the opportunity to save energy by removing inefficient appliances from service.

Refrigerator efficiency has improved dramatically over the past 20 years. The U.S. Environmental Protection Agency encourages consumers to

shift to EnergyStar appliances, which are about 15 percent more energy efficient than appliances built according to 2009 standards.

EnergyStar estimates that of approximately 170 million refrigerators in use in the U.S., more than 60 million are over 10 years old. When operated in a hot garage or exposed to the elements, these older refrigerators consume even more energy.

## Pure Metal Recycling assets from two locations to be auctioned

The remaining assets of Pure Metal Recycling LLC are headed to auction including all assets at two locations.

Industrial Assets Corp., headquartered in Studio City, California, and Maynards Inc. in Southfield, Michigan were the stalking horse bidder which placed the \$9 million offer on the remaining physical assets of the defunct Chicago recycler.

The two companies became the successful bidder for the Pure Metal assets this month after a sale was conducted as an assignment for the benefit of creditors. Steven Mattes, chief executive officer of Industrial Assets Corp. said he was attracted to the diversity and large volume of assets.

The preview will be held on April 11 and 12 with the actual 3 day auction conducted from April 13 through April 15 due to the sheer volume of equipment to be sold. Buyers can attend the

sale or make offers electronically as the auction will be webcast.

Assets from the Joliet, Illinois and South Bend, Indiana sites will be sold on April 13. The Blue Island Illinois assets will be sold on April 14 and the week will conclude with the Chicago and Elgin, Illinois locations' assets sold on April 15.

There is an opportunity for parties to purchase all the assets at the Joliet and Blue Island facilities because the property landlord would like to find a new tenant.

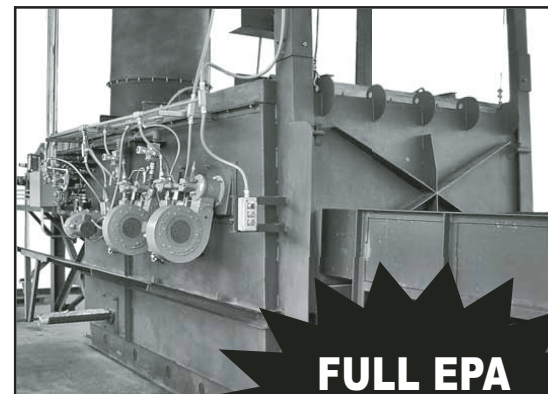
The auctioneer's site indicates the sale includes over 5,000 lots. Items include 45 excavators with various attachments such as shears and grapples, nearly 400 trucks and trailers, dozens of forklifts, metal slitters, metal processing equipment, over 5,000 containers, drive on scales and various types of balers.

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## Leaders honored for mentoring women in manufacturing

Jodi Keller-Wheeler, vice president of Cicero, Illinois-based United Scrap Metal, has been awarded the 2016 Women in Manufacturing STEP (Science, Technology, Engineering and Production) Ahead Award by The Manufacturing Institute. The STEP Ahead Awards honor women who have demonstrated excellence and leadership in their careers representing all levels of the manufacturing industry, from the factory floor to the C-suite.

On April 21, 2016, The Manufacturing Institute will recognize 130 recipients of the STEP Awards at a reception in Washington, DC. The STEP Ahead Awards program will highlight each honoree's story, including their leadership and accomplishments in manufacturing. The honorees represent more than 100 companies.

Manufacturing currently faces a skills gap and the STEP Awards program is an effort to entice more women into the profession. Today, as many as 80 percent of manufacturers can't find the skilled workers they need. Women represent 47 percent of the workplace,

but only 27 percent of the manufacturing workforce.

"I am incredibly honored to work for an aggressively growing woman-owned organization," said Keller-Wheeler. "I am fortunate to have a career I am passionate about and that inspires me every day."

As a member of the executive leadership team at United Scrap Metal, Keller-Wheeler has helped lead the company to double-digit growth in each of the past four years. A career in manufacturing was encouraged at a young age because of the influence of her sister, who has a degree in mechanical engineering, and her father who has more than 40 years of experience in manufacturing.

The 130 honorees were nominated by their peers. More than 400 women have been honored since the program's inception in 2012. The STEP Awards call upon honorees to advocate for the manufacturing industry, mentor young women and girls, share best practices, and lead as an ambassador for manufacturing education.

## Bunting names new general manager

Bunting Magnetics Co. has promoted Robert Bunting to general manager, magnet materials division, located in Elk Grove Village, Illinois.

Bob Bunting, president and chief executive officer, Bunting Magnetics, made the announcement.

Through high school and beyond, Bunting worked at the company's New-

ton, Kansas headquarters in both manufacturing and engineering. His sales experience grew as an outside sales representative for the Standard Product Group.

The company's magnet materials division has a staff of seven in sales, shipping, manufacturing and distribution.

## Novelis sustainability report highlights recycling progress

Novelis published its 2015 sustainability report, detailing significant progress toward increasing the use of recycled aluminum and using natural resources more efficiently. At the end of Fiscal Year 2015, Novelis achieved an average of 49 percent recycled aluminum inputs, up 19 percentage points from baseline years of 2007-2009, and a reduction in water use intensity by 22 percent.

Over the past 5 years, Novelis has doubled its recycling capacity, helping to reduce its greenhouse gas (GHG) emissions by 13 percent from baseline. Recycling aluminum produces 95 percent fewer GHG emissions and requires 95 percent less energy than primary aluminum production, enabling Novelis to achieve lower GHG emissions despite increasing global production capacity.

Other achievements include:

- The opening of the world's largest and most technologically advanced aluminum recycling center in Nachterstedt, Germany, which can process up to 400,000 metric tons of aluminum scrap annually. This facility advances Novelis' progress toward increasing recycled inputs, will save 3.7 million metric tons of CO<sub>2</sub> emissions a year and sets a new global standard for aluminum recycling.

- Optimizing water efficiency, which is critical to Novelis' operations, particularly in drought-impacted areas of the world such as Brazil. In FY15, Novelis' plant in Pindamonhangaba, Brazil made significant water efficiency

improvements, including automation of its industrial and drinking water systems, helping the company to reach an overall 22 percent reduction in water intensity.

- Supplying lightweight automotive aluminum for the Ford F-150, America's best-selling truck, thereby eliminating 700 pounds from the vehicle and making it highly fuel efficient. Supply for the truck also involves a highly innovative closed-looped recycling system, ensuring manufacturing scrap is recycled in a closed loop between Novelis and Ford.

- Continued expansion of the company's portfolio of certified high-recycled aluminum products, including beverage can sheet and the introduction of evercycle™ for food containers. The evercycle aluminum sheet, which is certified by SCS Global Services to contain 100 percent recycled aluminum, represents a breakthrough in the food containers category, which has been made historically from primary aluminum-based alloys or lower amounts of pre-consumer recycled content.

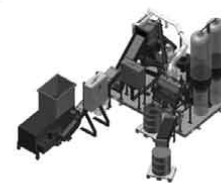
Since 2011, Novelis has invested approximately \$2 billion to expand recycling and production capacity. The company looks forward to utilizing its new capabilities to the fullest extent, driving operational excellence and delivering the highest quality, sustainable products to its customers for years to come, helping them achieve their own sustainability objectives and adhere to evolving carbon constraints around the world.

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# EQUIPMENT SPOTLIGHT

## Eddy Current Separators

by MARY M. COX

maryc@americanrecycler.com

The eddy current separator (ECS), first introduced in 1984 in Europe, is an automated method for separating nonferrous metals, such as aluminum and copper, from domestic and industrial waste. Prior to this invention, these metals were sent to the landfill, causing contamination and wasting valuable commodities and resources. The evolution of the ECS over the past 30 years has resulted in the machine often being a staple at recycling facilities across the world.

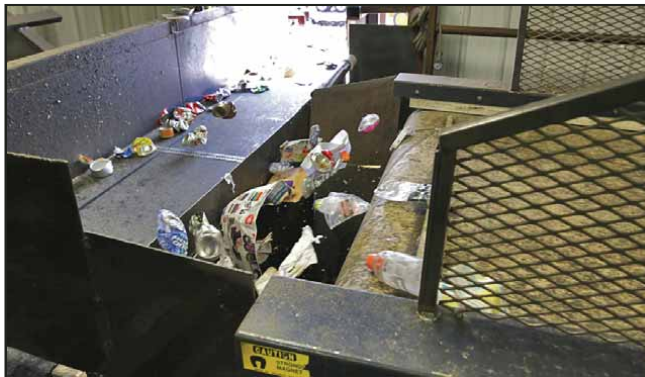
Dings Company is a 117 year old manufacturer of a complete line of magnetic separators that includes electro and permanent overhead magnets, magnetic drums and head pulleys, plates, grates and eddy current separators. Mike Vukovic, account manager, explained the details involved in the performance of these machines: "Material is fed onto the conveyor belt of the ECS, which

ferrous metal such as aluminum, passes over the separator, the magnets inside the rotor rotate past the aluminum at high speed. This forms eddy currents in the aluminum, which in turn create a magnetic field around the piece of aluminum. The polarity of that magnetic field is the same as the rotating magnet, causing the aluminum to be repelled away from the magnet.

This repulsion makes the trajectory of the aluminum greater than that of the nonmetallic, allowing the two material streams to be separated." Vukovic said that Dings' rotors are made with a triple layer shell. The triple shell layers of ceramic tile, fiberglass and heavy duty stainless steel, protect the magnetic roller assembly. This aids in providing a longer life for the machine and lower maintenance and repair costs. Dings' three sizes of eddy current separators can process up to approximately 25 tons per hour.

Vukovic commented on the fact that recyclers' fixed costs are affected by processing material prices and market value fluctuates for commodities like aluminum, steel, paper and plastic. "Aluminum imports, for example, affect the price for recycled aluminum—which is down approximately 30 percent from last year. When markets are down recyclers need to spend less time sorting material. There is also an increasing demand for a cleaner, less contaminated end product."

Mastermag units, manufactured by The Magnetics Division, Global Equipment, were first introduced in the late 1990s. The Mastermag product line now offers a full range of products, including: the CanSorter, specifically used for aluminum can sorting; the MasterSort, fairly new to



Dings Company Magnetic Group

the market, with a high speed eccentric rotor design, which separates 'fine' nonferrous metals from other materials such as glass cullet, shredded wood and electronic scrap. Marshall Gralnick, president, said, "The MasterSort also includes a new material splitter plate design, allowing for complete adjustment flexibility and precise material segregation. With rotor speeds of approximately 3,000 RPM and using rare earth magnetics, our Mastermag ECS machines are suitable for any type recycling plant with volumes from 1 TPH to upwards of 250 TPH and more, utilizing multiple systems in tandem. Although ECS systems are complicated machines designed for specific purposes, the ease of set-up for a Mastermag is remarkably simple. In most instances, a factory specialist is not required.

"Our system assembly requirements are as simple as a 'plug and play' game. All wires or cables are color-coded to match the same color receptacle involved. The adjustments and instructions required are easy to follow using our manual, with easy to follow photos and diagrams." Gralnick noted that the key to growth of the ECS in recycling lies with commodity pricing, "Prices for copper and aluminum, as well as many other metals, have been deteriorating to near all-time lows, as a result of market demand from China. While this trend may continue for the immediate future, eventually prices will begin to rise again, as China sorts out their market and the demand for recycled materials is reignited. In the meantime, the ECS will still be an important tool in metal recycling and will continue to evolve."

According to Steinert U.S., 65 percent of eddy currents used today



Magnetics Division, Global Equip. Mktg.

moves it across a magnetic rotor where separation occurs. The two streams of material discharge into a housing. The housing has a splitter to divide the nonferrous metal from the nonmetallic material, such as paper, plastic, wood or fluff. The key component of the ECS is the magnetic rotor, which has a series of permanent rare earth magnets mounted on a support plate attached to a shaft. The magnetic rotor is surrounded, but not attached to, a wear shell which supports the conveyor belt. This allows the rotor to spin independently and at a much higher speed than the wear shell and belt. When a piece of non-

### Manufacturer List

**Dings Company Magnetic Group**  
Mike Vukovic  
414-672-7830  
www.dingsmagnets.com

**Eriez Manufacturing Co.**  
Chris Ramsdell  
888-300-3743  
recovery.eriez.com

**Huron Valley Steel Corp.**  
David Wallace  
734-479-3500  
www.hvsc.net

**Industrial Magnetics Inc.**  
Dennis O'Leary  
800-662-4638  
www.magnetics.com

**Magnapower Equipment Ltd.**  
Rob Jones  
44 1527 557 092  
www.magnapower.co.uk

**Magnetic Products, Inc.**  
Keith Rhodes  
248-887-5600  
www.mpimagnet.com

**Magnetics Division, Global Equip. Mktg.**  
Marshall Gralnick  
866-750-8662  
www.globalmagnetics.com

**Master Magnets Ltd**  
Jonathan Millington  
44 1527 65858  
www.mastermagnets.com

**SGM Magnetics Corp.**  
Robert Melenick  
941-342-8800  
www.sgmmagnetics.com

**Steinert US**  
Bart Kocik  
800-595-4014  
www.steinertus.com

in the scrap industry are Steinert machines. Bart Kocik, vice president of sales stated, "Our NES eddy currents have historically been the workhorse of the industry, and we continue to innovate. This is evident with the success of our NES 4T, See EDDY CURRENT, Page B5

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# Eddy current

Continued from Page B4



Steinert US

which separates nonferrous metals from extremely fine fractions, delivering a higher yield and longer life than other machines that perform a similar function.”

“Steinert pioneered and is now the leading manufacturer of eccentric pole system eddy currents. The NES 4T has more magnets than any other eddy current on the market – making it stronger at 4000 RPM than competitor machines that run at higher RPMs,” he said. “The eccentric pole system allows for maximum ejection efficiency, and residual ferrous metals cannot adhere to the head drum, which reduces damage to both the belt and drum shell. It is one of the most adaptable and durable pieces of equipment available.”

Kocik also reports that the NES 4T has variable belt speeds to adjust to the material being sorted, pre-programmed options and a 24-month warranty. All Steinert eddy currents have a standard 24-month warranty. The product is available in four sizes: 1m, 1.5m, 2m and 2.5m, with a belt speed of 1 to 2.5 m/s. “The scrap, waste and recycling industries do their best to extract the purest form of every commodity available during the sorting process. As a result, companies seek equipment that can remove the highest percentage of commodity product possible, and as quickly as possible. Our equipment set the bar to achieve just that,” Kocik commented.

# Industry leaders chosen for significant contributions

The Association for Iron & Steel Technology (AIST) recognizes, through peer reviews, the active leadership and significant contributions of individuals or companies to AIST and the global iron and steel industry. The Board of directors Awards and Recognition Program serves to highlight those who have improved and advanced the steelmaking process, as well as challenging their colleagues to continue, and even exceed, the technological and developmental gains spotlighted by these achievements.

The following AIST board of directors awards will be presented at the president’s Award Breakfast during AISTech 2016 in May in Pittsburgh, Pennsylvania:

**AIST Steelmaker of the Year Award** – Established in 1991, the Steelmaker of the Year Award recognizes contributions of a prominent individual to the steel industry.

John J. Ferriola, chairman, chief executive officer and president, Nucor Corp.

**AIST William T. Hogan, S.J. Lecture Award** – Established in 1990, this honorary lecturer is selected in recognition of individual outstanding leadership to the iron and steel industry, with selected lectures covering trade,

economics, steel industry operations, developments or forecasts.

Mario Longhi, president and chief executive officer, United States Steel Corporation

**AIST Tadeusz Sendzimir Memorial Medal** – This distinguished award was established in 1990 to perpetuate the memory of Dr. Tadeusz Sendzimir’s achievements and engineering contributions in developing process equipment for the steel industry. The award is presented in recognition of an individual who has advanced steelmaking through the invention, development or application of new manufacturing processes or equipment.

Kenneth E. Blazek, principal engineer, continuous casting, ArcelorMittal USA

**AIST Distinguished Member and Fellow Awards** – Established in 1975, the Distinguished Member and Fellow Award is presented to an AIST member who has attained eminent distinction in advancing the technical development, production, processing and application of iron and steel and/or related activities of the industry, and has performed meritorious service to the association.

David K. Matlock, emeritus professor, Colorado School of Mines

Douglas D. Nicksch, director, material handling, Mi-Jack Products Inc.

Ronaldo S. Sampaio, president, R.S. Consultants

Richard P. Teets Jr., executive vice president and chief operating officer – Steel Operations, Steel Dynamics Inc.

**John F. Elliott Lectureship Award** – Established in 1990, this honorary lectureship is designed to acquaint students and engineers with the exciting opportunities in chemical process metallurgy and materials chemistry. This lecturer is selected in recognition of distinguished contributions in chemical process metallurgy and materials chemistry to the iron and steel industry.

P. Christopher Pistorius, POSCO professor, Carnegie Mellon University

**J. Keith Brimacombe Memorial Lecture** – The AIST J. Keith Brimacombe Memorial Lecture Award was established in 1999 to honor Dr. J. Keith Brimacombe’s outstanding accomplishments in the area of process metallurgy, his dedication to the steel industry and his profound effect on people in the industry.

Peter D. Hodgson, professor, Deakin University

See LEADERS, Page B6

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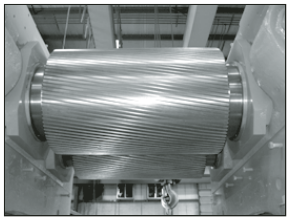
### FUCHS LAUNCHES NEW MATERIAL HANDLER AND CAB

Fuchs introduced an entirely new, high-capacity material handler.

The purpose-built material handler represents a new capacity class entry for Fuchs and is built for the high production needs of large scrap recycling operations.

Fuchs unveiled its newest cab design that sports the latest technologies to embody the symbiosis of tradition, quality and innovative spirit. The re-engineered operator's cab is designed for purpose-built material handlers. Standard joystick steering improves machine responsiveness to operator commands, while large windows provide enhanced visibility of the operating area.

**Fuchs**  
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Louisville, KY 40299  
203-222-7170  
www.terex-fuchs.com



### GRANUTECH-SATURN SYSTEMS LAUNCHES NEW REFINER MILL

Granutech-Saturn Systems launched the G4X mill for crumb rubber featuring a unique sealed roller bearing design that provides significant benefits over traditional bushing design mills.

The design enables the G4X mill to hold the rolls at closer tolerances, which translates to finer cleaner usable powder and fewer processing cycles. With reduced roll clearances in roller bearing design, there is an increase in processing capacity as well, translating to a throughput of asphalt quality crumb rubber of 3 tons per hour (up to 25 percent higher than leading mills).

**Granutech-Saturn Systems**  
201 E Shady Grove Road  
Grand Prairie, TX 75050  
972-790-7800  
www.granutech.com



### JWC ENVIRONMENTAL OFFERS NEW 4-SHRED 1-H-GRINDER

The newly designed 4-SHRED-1-H is packed with power and can be easily tailored for use in wet or dry applications. This grinder quickly breaks large waste down to size to reduce waste volume, optimize output for further processing and/or to allow the waste to be recycled.

The 4-SHRED-1 is a low-speed, high-torque dual-shafted grinder using less energy, with lower maintenance costs and quieter operation than comparable hammer mills. With a lower total cost of ownership and the newly designed 2.5" main shafts this tough grinder is up for the task.

**JWC Environmental**  
290 Paularino Avenue  
Costa Mesa, CA 92626  
800-331-2277  
www.jwce.com



### SCREEN MACHINE INDUSTRIES LAUNCHES SPYDER 514TS

Screen Machine Industries LLC has launched their new Spyder 514TS. This unit is a track-mounted reverse style screening plant designed for secondary screening of rock, gravel and other materials. Equipped with a 5' x 14' double-deck screen with Smooth Start® Technology, this heavy-duty machine is capable of producing up to three different finished sized products simultaneously.

The 514TS can be used as a stand-alone screen or in conjunction with a crusher and offers the ability to close circuit the oversized material back into the crusher without the need for additional conveyors.

**Screen Machine Industries**  
10685 Columbus Parkway  
Etna, OH 43062  
740-927-3464  
www.screenmachine.com



### WASTEQUIP'S 245IP COMPACTOR IS IDEAL FOR DRY WASTE

Wastequip's 245IP two yard stationary compactor features simple controls with a push button start, a 2 cubic yard charge box, a Watch Dog timer that prevents motor burnout and Wastequip's very own easy to use 24 volt Guardian Control System™ with automatic maintenance scheduling.

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## Paul A. Mascarenas OBE elected To U.S. Steel board

United States Steel Corporation announced that Paul A. Mascarenas OBE has been elected to the company's board of directors.

Mascarenas is president and chairman of the executive board of FISITA (Fédération Internationale des Sociétés d'Ingénieurs des Techniques de l'Automobile). FISITA, the international network for automotive engineers, represents more than 200,000 engineers in 37 countries. Mascarenas is also a member of the board of directors at ON Semiconductor, Mentor Graphics, and a special venture partner at Fontinalis Partners, a venture capital firm focused on mobility solutions.

Mascarenas previously served as chief technical officer and vice president of research and advanced engineering at

Ford Motor Company. In this role, he led Ford's worldwide research organization, as well as the development and implementation of the company's technology strategy. Throughout his 32 year career at Ford, Mascarenas played an instrumental role in the development and launch of many global products, including the F-Series, Explorer, Mustang, Taurus, Fusion and Focus models.

Mascarenas served as general chairperson for the 2010 SAE World Congress and Convergence and has served on the FISITA board since 2012. He received an honorary doctorate from Chongqing University in China in 2013. In 2015, Mascarenas was awarded an OBE by Queen Elizabeth II, for his services to the automotive industry.

## Leaders

■Continued from Page B5

Prof. Hodgson will present his lecture at AISTech 2016. His lecture is titled, "Engineering Steels at the Nanoscale for Improved Performance."

**Benjamin F. Fairless Award (AIME)** – This award was established in 1954 in honor of Benjamin F. Fairless, chairman of the board of United States Steel Corporation. This award recognizes distinguished achievement in iron and steel production and ferrous metallurgy.

George Krauss, university emeritus professor, Colorado School of Mines

**Outstanding Chapter Growth Award** – The AIST Outstanding Chapter Growth Award was established in 1996 as the Past President's Award. The first award recognizes the chapter with the greatest percentage increase in new membership and the second award recognizes the chapter with the greatest numerical increase in membership.

**Greatest Percentage Increase – Australia Member Chapter** – Paul J. O'Kane, OneSteel Ltd., Sydney, NSW, Australia, will accept the award on behalf of the Australia Member Chapter.

**Greatest Percentage Increase – India Member Chapter** – Anand Sen, Tata Steel Ltd., Jamshedpur, JH, India, will accept the award on behalf of the India Member Chapter.

**Greatest Numerical Increase – Northeastern Ohio Member Chapter** – Larry A. Marks, TimkenSteel Corp., Canton, Ohio, USA, will accept the award on behalf of the Northeastern Ohio Member Chapter.

**Greatest Numerical Increase – Korea Member Chapter** – Sun Cheer Sheen, Donghae Steeltech Corp., Seoul, South Korea, will accept the award for the Korea Member Chapter.



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## River Metals Recycling Newport achieves SHARP recertification

River Metals Recycling (RMR) Newport received the prestigious Safety & Health Achievement Recognition Program (SHARP) recertification for taking extraordinary measures to ensure the safety and health of all teammates. RMR's safety record garnered the company recertification, which was presented by Kentucky secretary of Labor Derrick Ramsey. RMR Newport achieved the original SHARP certification in December, 2013 and was the first recycling facility in Kentucky to earn SHARP status. RMR is the first Kentucky recycling facility to be SHARP recertified.

The Newport Kentucky facility was recognized for its commitment to creating and maintaining a safe and healthy workplace. SHARP is one of the highest honors OSHA awards to small worksites that demonstrate an exemplary commitment to workplace safety and health.

River Metals Recycling is the largest scrap recycler in Kentucky and in the greater Cincinnati area, with nine locations in Illinois, Indiana, Kentucky and Ohio. RMR is headquartered in Crescent Springs, Kentucky, and has nearly 250 teammates.

## Steel imports

■Continued from Page B1

According to Babcock, inventory levels are up. Over the past 15 years, China has been the major driver of scrap metal consumption.

"I see China as a big question mark, with economic growth expected to continue to slow," Babcock said. "Consequently, global steel consumption should decline. This time around, I believe we are looking at a longer down cycle, perhaps another 12 to 18 months versus what we saw in 2002 and 2008 when there were relatively quick recoveries."

Of course as mills keep less finished steel on hand and witness a reduction in their business, they need to melt less. This lowering demand trickles down the supply chain, to recyclers who find it harder to sell their tons. According to Muckle, recently released data of Scrap Metal Exports show we hit a nine year low in 2015. Tonnages that historical have gone offshore, are now pushing their way inland to mills with reduced demand causing an over supply and the overall pain is felt in the recycling markets.

In 2008, Muckle asked a professor at Boston's Babson College, School of Entrepreneurship about scrap yard health in a time of steel mill shutdowns and uncertainty. "His response was, 'cut quick and cut deep.' Recyclers reduce overhead and 'keep their powder dry' when it comes to their finances. You need to maintain some level of financial reserves or 'rainy day funds' because it's pouring and there is no sunshine in the forecast. The general consensus is these markets don't look to be turning anytime soon, and could last for at least another 18 to 24 months.

Reese also stressed that until China's economy bounces back and their appetite for recycled metals grows, the short term future for metals will continue to stagnate.

"Those recyclers who can weather the storm by diversifying their operations into areas they have not been involved in previously, such as demolition, electronics recycling, etc., as well as reducing debt and maintaining cash flow will be poised to take advantage of a market turnaround when it occurs," Muckle said. "This is a battle of attrition, and the last person standing will win."

## U.S. Commerce Department investigates illegal imports

The United Steelworkers (USW) affirmed the launch of an investigation by the U.S. Department of Commerce (DOC) of dumped and subsidized imports of stainless steel sheet and strip products from China that will determine the level of trade law violations for placement of duty orders.

Petitioners for the investigation are ATI Flat Rolled Products in Pennsylvania, AK Steel Corp. of Ohio, Outokumpu Stainless of Illinois, and North American Stainless in Kentucky.

Leo W. Gerard, USW International president said the union will be actively supporting the petitioner companies representing more than 3,000 steelworkers employed in making stainless steel sheet and strip alloy coils and straight length products.

"This latest steel industry trade case makes clear the volume of illegal dumping and subsidized products from China that's being fought by the industry and our government.

"Our 2,200 steelworkers who make specialty metals products at ATI

just ratified a new labor agreement after a 6 month lockout and they don't want to sustain more pain from seeing China unfairly steal the American market."

According to Tom Conway, USW International Vice president, who led the negotiations, "We've seen Chinese producers of unfairly subsidizing stainless steel sheet and strip in the U.S. at as much as 77 percent below fair value."

The next step in the government investigation of the stainless import case will involve a public hearing by the U.S. International Trade Commission and a preliminary injury determination. Preliminary determination orders by the government are expected May 9 for anti-subsidy duties, and July 21 for antidumping duties.

The DOC fact sheet and case calendar for the stainless sheet and strip trade case can be viewed at: Initiation of Antidumping Duty and Countervailing Duty Investigations of Imports of Stainless Steel Sheet and Strip from China.

## UNTHA now ISO 9001-certified

UNTHA shredding technology is now ISO-9001 certified. This international standard attests to the fact that all processes in the company are constantly monitored and thus are subject to continuous improvement.

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dard for performance. This standard is internationally known and recognized and proves that all thoughts and actions in each one of the company's sub-processes are driven by a focus on quality. Well thought out processes are crucial for product quality.

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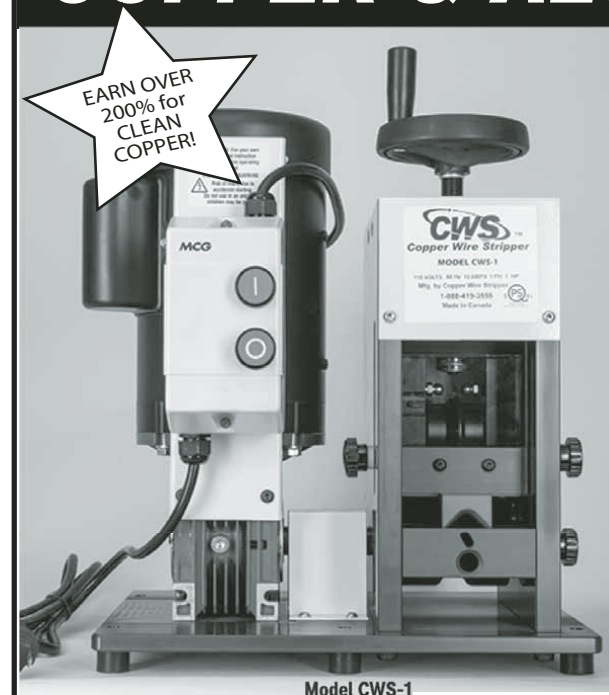
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