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## C&D industry: Better days ahead

by MIKE BRESLIN

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Times are certainly not booming, but the economic outlook for construction and demolition (C&D) contractors are looking brighter.

According to Labor Department, April saw U.S. employers adding 223,000 jobs which sent the unemployment rate to a 7 year low of 5.4 percent. These job gains indicate that companies are confident enough to hire additional workers.

Construction companies added 45,000 jobs in April, the most in 16 months indicating that the economy may be picking up. Home sales also increased in March, showing that more Americans are making investments. The National Association of Realtors said that people bought existing homes at an annual pace of 5.19 million. Those gains are expected to extend into April based on figures on signed contracts. This indicates additional growth for the construction industry as builders try to meet demand.

The number of open, unfilled construction sector positions increased noticeably in February. Overall, the construction labor market has been characterized by relatively higher levels of turnover over the last few months, with an increase in hiring and quits at the end of 2014 and an upward trend in job openings.

According to the Bureau of Labor Statistics, the

number of open construction industry jobs for February (on a seasonally adjusted basis) increased to 166,000 from a revised total of 137,000 in January. This February's estimate of unfilled construction jobs is the highest total since July of 2007.

Since the low point of industry employment following the Great Recession, the residential construction industry has gained 431,700 positions, although employment is 1.032 million lower than the peaks in early 2006. On average, the construction industry has been adding fewer than 10,000 jobs per month over the last 6 months.

In May, the National Association of Home Builders/First American Leading Markets Index study reported that in 68 of the approximately 360 metro areas nationwide returned to or exceeded their last normal levels of economic and housing activity in the first quarter of 2015. This represents a year-over-year net gain of seven markets.

The index's nationwide score edged up to 91 percent, meaning that based on current permit, price and employment data, the nationwide average is running at 91 percent of normal economic and housing activity. Meanwhile, 68 percent of markets have shown an improvement year over year.

American Recycler News spoke with Robert Denk, senior economist for the National



Many construction projects, both new ones and upgrades begin with demolition as the first step, so the growth in construction and demolition are closely linked.

PHOTO BY FOTOLUMINATE | DREAMSTIME

Association of Home Builders (NAHB) for further insight into housing construction:

"It's been a long slog for home construction," said Denk. "We hit bottom in early 2008 and 2009, 2010 and 2011 were not great. But 2012, 2013 and 2014 have been good years. Despite that, the multi-family sector has pretty much fully

recovered and is at a normal level of housing starts. On the other hand, despite good years in 2012, 2013 and 2014 the single family sector is still struggling at about half the normal level of annual single-family housing starts. The 650,000 single-family level we've seen off and on in the past, is really

See **BETTER DAYS**, Page 4

## EPA releases fracking impact assessment

The Environmental Protection Agency (EPA) is releasing a draft assessment on the potential impacts of hydraulic fracturing activities on drinking water resources in the U.S.

The assessment, done at the request of Congress, shows that while hydraulic fracturing activities in the U.S. are carried out in a way that have not led to widespread, systemic impacts on drinking water resources, there are potential vulnerabilities in the water lifecycle that could impact drinking water. The assessment follows the water used for hydraulic fracturing from water acquisition, chemical mixing at the well pad site, well injection of fracking fluids, the collection of hydraulic fracturing waste-

water (including flowback and produced water), and wastewater treatment and disposal.

"EPA's draft assessment will give state regulators, tribes and local communities and industry around the country a critical resource to identify how best to protect public health and their drinking water resources," said Dr. Thomas A. Burke, EPA's science advisor and deputy assistant administrator of EPA's Office of Research and Development. "It is the most complete compilation of scientific data to date, including over 950 sources of information, published papers, numerous technical reports, information from stakeholders and peer-reviewed EPA scientific reports."

EPA's review of data sources available to the agency found specific instances where well integrity and waste water management related to hydraulic fracturing activities impacted drinking water resources, but they were small compared to the large number of hydraulically fractured wells across the country. The report provides valuable information about potential vulnerabilities, some of which are not unique to hydraulic fracturing, to drinking water resources, but was not designed to be a list of documented impacts.

These vulnerabilities to drinking water resources include:

- Water withdrawals in areas with low water availability;

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## Virginia Beach center honored for recycling program

The Virginia Recycling Association (VRA) honored Virginia Beach with its state 2015 Outstanding Municipal Program Award for dedication to the industry and program excellence.

VRA selected the City of Virginia Beach because of its successful rebranding and restructuring of the Virginia Beach Landfill and Resource Recovery Center. Recently, Virginia Beach also garnered a national MarCom Gold Award for professional communications of the facility's restructuring and rebranding.

As many as 1,808 residents visited the Virginia Beach Landfill and Resource Recovery Center on each of the Saturdays in April despite cold and rainy weather. That's a 39 percent increase over the typical 1,100 Saturday visitors.

The increase in volume can be attributed to improved offerings including metals; electronics such as televisions, computers and cell phones; batteries, rigid plastics, oyster shells, dirt, concrete, clothes, shoes, books and more. Educational awareness is growing through outreach, presentations, events, print materials, and online resources.

The division's efforts to promote proper disposal practices for a cleaner and more sustainable city are gaining momentum. In the past 12 months, more than 53,000 residents visited the facility.

## Disneyland honored for food recovery

First theme park in nation to receive zero waste certification at one facility

Disneyland Resort was recognized by the U.S. Environmental Protection Agency (EPA) with the 2014 Food Recovery Challenge award for its zero waste efforts, and the highest percent increase in food recovery of any theme park in the nation.

The EPA's Food Recovery Challenge partners with organizations and businesses to prevent and reduce wasted food. The participants include groups such as grocers, educational institutions, sports and entertainment venues, restaurants and hotels. The program helps participants save money, reduce hunger in communities, and protect the environment by purchasing less, donating extra food and composting.

Since 2013, as part of its efforts under the Food Recovery Challenge, the Disneyland Resort:

- Diverted more than 7 million pounds of food scraps from entering landfills and donated more than 50 tons of surplus food to people.

- Had more than 1,200 tons of on-site used cooking oil from resort restaurants converted to biodiesel, which fuels the Disneyland railroad and Mark Twain riverboat and has reduced the resort's consumption of petroleum-based diesel by about 150,000 gallons per year.

- Was recognized by the U.S. Zero Waste Business Council for achieving a 99.8 percent diversion rate at Circle D Corral, the first location in The Walt Disney Company or any theme park to receive a zero waste certification. Circle D Corral, a working ranch that is home to the animals of the Disneyland Resort, collects animal waste, hay scraps, and wood shavings, as well as coffee grounds from Resort restaurants, and laundry lint from hotel clothes dryers, producing 600,000 pounds of compost per year.

In addition, in December 2014, Disneyland Resort began a surplus food donation program. In the first three months, it donated 3,800 pounds of prepared, unserved food from restaurants and banquets at the Disneyland Hotel to Second Harvest Food Bank of Orange County for distribution to people in need within the community. The resort also donates surplus, pre-packaged food from its merchandise locations to local food banks. To date, it has donated more than 110,000 pounds of packaged food, valued at \$360,000.

Sixty Disneyland Resort locations participate in the Food Scraps Diversion Program including facilities at Disneyland Park, Disney California Adventure

Park, Downtown Disney, Disneyland Hotel, Disney's Paradise Pier Hotel and Disney's Grand Californian Hotel & Spa. Food scraps are separated and collected both pre- and post-consumer by Disneyland Resort food and beverage cast members. Food scraps collected at the resort are picked up by a local vendor who processes them into feed nutrients for farm animals.

In 2012, Americans threw away nearly 35 million tons of food; that's more than any other type of material being landfilled. As wasted food decomposes in a landfill, it generates methane, a greenhouse gas 25 times more potent than carbon dioxide.

The U.S. Department of Agriculture estimates that wasted food costs America more than \$165 billion annually and that the average family of four throws away \$1,600 worth of food each year. Through innovation and hard work, Food Recovery Challenge participants and endorsers have greatly reduced wasted food. Food pantries, food rescue programs, local food banks, soup kitchens and shelters are benefitting from donations of wholesome and nutritious food — helping feed people, not landfills.

## Robert Kelman to retire from Sims Metal Management

Sims Metal Management chief executive officer Galdino Claro disclosed that Robert Kelman, managing director of European Metals, retired from Sims on June 30, 2015.

Kelman had been managing director of Sims' European Metals division since July 1, 2014. Kelman will remain as a consultant to Sims for a period of time after his retirement.

Kelman has been involved in the recycling industry for over 30 years. Kelman previously held the positions of president and chief operating officer, Metals Recycling for Sims Metal.

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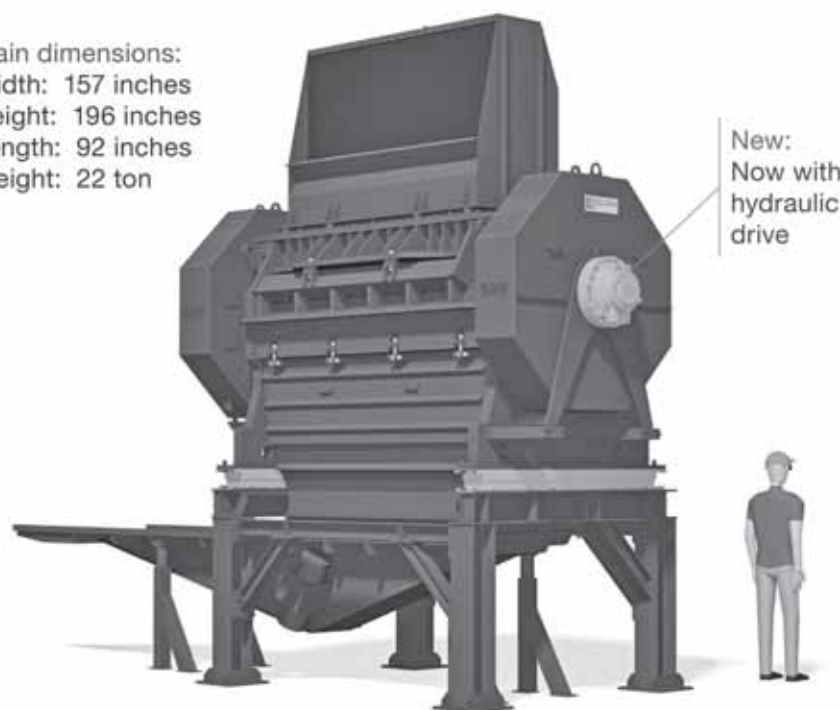
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# American Rivers to surpass trash record

The 2015 National River Cleanup® season is on track to break records. National River Cleanup was founded 24 years ago as a single day of localized river trash cleanups, but it has grown into a year round program that mobilizes volunteers in communities across the country.

"We're so grateful to the tens of thousands of people who believe, like we do, that trash has no place in our rivers where it can dirty the drinking water that communities rely on, spoil family fun and poison habitats for fish and wildlife," said Bob Irvin, president of American Rivers,

"Last year, over 87,000 volunteers participated in river cleanups that will protect their families and help their communities, and we expect more this year."

Throughout National River Cleanup season, American Rivers helps local groups with their cleanup efforts. In 2014, groups organized cleanups at more than 1,445 sites throughout the year.

Volunteers can find their closest river cleanup and additional information at [www.AmericanRivers.org/Cleanup](http://www.AmericanRivers.org/Cleanup). The online handbook provides people interested in organizing their own cleanups

with comprehensive information on everything from how to scout a location to how to increase day-of participation. Cleanup organizers will receive free trash bags and access to downloadable flyer templates, a media guide, fact sheets and an event organizing guide.

The National River Cleanup program is sponsored by Cox Enterprises, REI, Aveda, Plow & Hearth, reuseit.com and Keurig Green Mountain, Inc. These companies have made a long term commitment to American Rivers' work to protect and restore rivers across the country.

## Better days

■Continued from Page 1

about half of where we should be. We should be at 1.3 million single-family housing starts per year.

Denk hopes that combined multi-family and single family starts will top 1 million in 2015 and he expects it to top 1.3 million starts in 2016. He said that the normal level of single family starts per year was 1.3 million and normal level for multi-family starts was between 300,000 to 400,000. That made the normal level of total housing starts at about 1.6 or 1.7 million. Even with solid recovery in 2015, and a stronger 2016, he believes we're still only going to be back to approximately 1.3 million total starts per year. "So there's still plenty of recovery ahead, mainly on the single-family side," Denk added.

On the demolition side Denk roughly estimates 300,000 units per year are lost to demolition, fires and natural events. NAHB pays attention to home remodels, but does not closely track the data. When a hurricane destroys a house and it is rebuilt on the same foundation NAHB considers it a housing start.

During the recession, and due to necessity, many construction and demolition workers turned to doing home improvements such as additions and upgrades.

According to the U.S. Census Bureau and the Department of Housing and Urban Development (HUD), between 2009 and 2011 American homeowners spent \$359 billion on home improvements, an average of \$3,200 per home.

Of the 76.1 million U.S. occupied living units, well over half, or 43.7

million made home improvements. Thirty seven percent of those improvements were made by homeowners themselves while 63 percent of construction was done by professionals.

"When housing starts began to recover, home remodeling followed suit in basically the same patterns," Denk concluded.

Many construction projects, both new ones and upgrades begin with demolition as the first step, so the growth in construction and demolition are closely linked. To delve deeper into the economic health of the demolition industry, American Recycler spoke to Fred Loewendick, vice president of Loewendick Demolition Contractors. Established in 1929 and based in Columbus, Ohio, Loewendick has been one of the leaders in the demolition industry. Currently operated by third generation family members and grooming the fourth, the company is a multi-faceted business including demolition, trucking, recycling and landfills. It was a charter member of the National Demolition Association and has helped steer its growth from the beginning.

"Right now, things are just booming. It's like someone stepped on the accelerator. Now it seems that everything I look at comes my way," said Fred Loewendick. "Even through the recession we stayed pretty steady because of where we are located in Columbus. The private sector is also starting to pick up in the last two or three years. We're blessed because we are a national test market. When someone has a new idea or product they bring it here because we are geographically located to most of the population of the country. So it's a dynamic market. Because of that, our

downtown is making a major transition by getting rid of a lot of old buildings and putting up a bunch of new condos. That activity began in early 2014, continues today and represents about 30 percent of our business."

Loewendick pointed out that Columbus doesn't seem to slow down when the rest of the nation does. His company runs approximately 150 pieces of equipment and employs approximately 30 union workers. Even though Loewendick's business is good these days, competition has become stiffer. It used to be that Loewendick would bid against 3 or 4 primary contractors, now it's up against 9 or 10.

"Right now we're doing a lot of work to repurpose buildings...interior cleanouts so they can be refurbished. For example, we just bid on a 38 story building here in town – half residential, half hotel," said Loewendick. "On average, of the material we demolish, we recycle approximately 50 percent into aggregates and metals. But, of course, the steel market is down right now. There's been a larger push for recycling by the client. That's one of the biggest changes in the demolition industry that I've noticed. Everyone wants their green points. We run our own landfill where we do sorting for our clients. We provide an inventory to them as to what has been recycled. Ohio State University is really strong on recycling and we like to work there and with other clients that want recycling."

Columbus is one of the fortunate metro markets. Let's hope other areas will soon be looking at better days.

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NewsVoice of Salvage, Waste and Recycling

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

SUBSCRIPTIONS: Call our offices at 877-777-0043 or visit [www.AmericanRecycler.com](http://www.AmericanRecycler.com). US 1 year \$48; 2 years \$72.

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## Events Calendar

### August 17th-19th

**Waste Conversion Tech Conference & Tradeshow.** Hyatt Regency Mission Bay Spa & Marina, San Diego, California. 800-441-7949 • [www.wasteconversionconference.com](http://www.wasteconversionconference.com)

### August 19th-20th

**Agricultural Plastics Recycling Conference & Trade Show.** Hyatt Regency Mission Bay Spa & Marina, San Diego, California. 800-441-7949 • [www.agplasticconference.com](http://www.agplasticconference.com)

### August 24th-27th

**SWANA's WASTECON.** The Gaylord Palms, Orlando, Florida. 800-467-9262 • [www.swana.org](http://www.swana.org)

### September 14th-16th

**Missouri Recycling Association Conference.** Adams Pointe Conference Center, Blue Springs, Missouri. 573-491-4255 • [www.moraconference.org](http://www.moraconference.org)



## Sewer district proceeds with organic MRF

Staff of the Fairfield-Suisun Sewer District (FSSD) recommended, and the board of directors accepted, the approval of a resolution to execute a 20 year lease agreement with an additional 10 year optional renewal between the FSSD and Lystek International Inc. for the development of an organic materials recovery center at its Chadbourne Road facility in Fairfield, California. The major terms and conditions of the agreement are effectively complete and both parties look forward to proceeding with project implementation.

"This is an exciting day for all stakeholders," said Rick Mosher, president of Lystek. "Approval by the board to move this project forward is the culmination of months of positive discussion and careful consideration of the many, mutual benefits that will be realized by everyone involved in this development. This includes the FSSD, all surrounding communities looking for advanced and proven, Class A quality biosolids and organics management solutions, growers that want/need good, affordable, nutrient rich, bio-fertilizer products as well as those looking for good paying jobs in the area," he added.

It is widely acknowledged that waste diversion and resource recovery generate substantial economic and environmental benefits while supporting and expanding the evolution towards a circular economy.

Founded in 2000, Lystek is a biosolids and organics management firm that is playing a leadership role in the successful diversion of organic materials from landfills. The firm provides proven solutions that help municipalities and other generators harness "waste" as an economic resource thereby converting wastewater treatment plants into Resource Recovery Centers. This is accomplished by transforming these materials into an organically-based, bio-fertilizer product called LysteGro. The resulting, high nutrient product is pathogen-free and it meets EPA, Class A EQ quality standards.

FSSD currently produces approximately 12,000 tons of biosolids per year. Under this agreement, the district will have long term control over its biosolids management expenses. Revenue and expenses will be proportional to the volume of material processed at the OMRC, which will have a maximum operating capacity of approximately 150,000 tons per year. FSSD biosolids management expenses will effectively be capped, except for growth and small, consumer price index increases, with revenues growing as more material is brought into the new facility.

Under the terms of the agreement, Lystek will be responsible for soliciting third party materials to be processed at the new facility as well as all marketing and sales of the LysteGro bio-fertilizer product.



# THIS IS HOW IT ALL STACKS UP

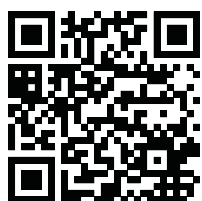


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## New data shows the high value of scrap exports

The Institute of Scrap Recycling Industries (ISRI) released new, independent data highlighting the important role scrap commodities play in U.S. exports. According to a new study by the consulting firm John Dunham and Associates, coinciding with World Trade Week, the scrap recycling industry is responsible for creating more than 125,000 U.S. jobs through its exports, which account for more than 26 percent of the industry's economic activity.

"Exporting to more than 160 countries, scrap recyclers play a critical role in helping the U.S. balance of trade," said Robin Wiener, president of ISRI. "This past year brought many challenges to the industry, including falling commodity prices, and the slow down at the West Coast ports. However, the recycling industry overcame these obstacles and showed that it is a proven economic driver, creating high-paying jobs and generating billions of dollars in federal, state, and local tax revenues."

The data shows that approximately 27.81 percent of the scrap materials processed in the U.S. are exported to other countries for manufacture into new products. These exports help create jobs in the U.S. and also reduce worldwide energy demand and the need to mine and harvest virgin materials. In

2015, 39,022 jobs are supported by the export activities associated with the processing and brokerage operations of scrap recyclers operating in the U.S. These jobs pay an average wage of \$78,984.

An additional 46,023 jobs are provided by supplier operations and through the indirect effects of scrap recycling exports. These jobs pay a total of \$3.19 billion in wages. All of this activity generates \$28.34 billion in economic benefits in the U.S. and contributes \$1.31 billion in tax revenues for the federal government and \$1.65 billion in state and local revenues. The data was included as part of a study conducted to determine the size and scope of the scrap industry in the U.S., and document its significant contribution to the economy in terms of employment, tax generation, and overall economic benefit. Additional data will be released later this week.

"While the scrap recycling industry has shown to be a major player in the U.S. export market, it also continues to produce enough supply for domestic manufacturers now and far into the future," concluded Wiener. "As the first link in the manufacturing supply chain, recyclers are a positive solution to strengthening all aspects of the American economy."

*"I've missed more than 9,000 shots in my career. I've lost almost 300 games. Twenty-six times I've been trusted to take the game winning shot and missed. I've failed over and over and over again in my life. And that is why I succeed."*

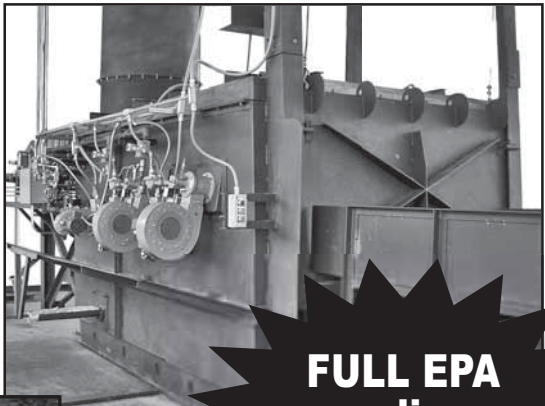
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## Ohio's waste and recycling industry has \$6.7 billion annual economic impact

At its annual meeting, the Ohio Chapter of the National Waste & Recycling Association (NWRA) released statewide economic impact data on the waste and recycling industry for the first time. Ohio NWRA members are meeting with legislators and regulators in conjunction with their annual chapter meeting to discuss the positive impact of the waste and recycling industry. In Ohio, nearly \$6.7 billion in direct, indirect and payroll-induced economic activity is generated by the industry, according to newly released NWRA state economic impact analysis.

NWRA members are significant contributors to state economies nationwide, providing high quality careers and well-paying jobs while providing services that are essential to waste removal, recycling and environmental protection. In Ohio, the private waste and recycling industry employs 14,000 people, has a total annual payroll in excess of \$638 million, generates annual revenue of \$3.1 billion, and the average annual compensation for industry

employees is \$45,867. The annual economic impact to Ohio's economy, generated by the waste and recycling industry is \$6.7 billion. When the activity of the waste and recycling industry with other industries is calculated, overall impact to the state economy of the waste and recycling industry in Ohio is over \$6.6 billion annually.

"The waste and recycling industry directly impacts all Ohio businesses and residents," said Kathy Trent, chairman of the Ohio Chapter of the NWRA, and director of government affairs for Waste Management, Inc. "Our industry contributes to our state economy in many ways: through high paying jobs, the combined payroll of our membership, and also through the broader impact we have doing business with other industries in the state."

NWRA's analysis is based on the U.S. Census Bureau's 2012 County Business Patterns data, the 2007 Economic Census and the U.S. Department of Commerce Bureau of Economic Analysis RIMS II regional multiplier.

## Fracking

■Continued from Page 1

•Hydraulic fracturing conducted directly into formations containing drinking water resources;

•Inadequately cased or cemented wells resulting in below ground migration of gases and liquids;

•Inadequately treated wastewater discharged into drinking water resources;

•Spills of hydraulic fluids and hydraulic fracturing wastewater, including flowback and produced water.

Also released were nine peer-reviewed EPA scientific reports ([www.epa.gov/hfstudy](http://www.epa.gov/hfstudy)). These reports were a part of EPA's overall hydraulic fracturing drinking water study and

contributed to the findings outlined in the draft assessment. Over 20 peer-reviewed articles or reports were published as part of this study.

States play a primary role in regulating most natural gas and oil development. EPA's authority is limited by statutory or regulatory exemptions under the Clean Water Act, Safe Drinking Water Act, the Comprehensive Environmental Response, Compensation and Liability Act, and the Resource Conservation and Recovery Act.

Where EPA's exemptions exist, states may have authority to regulate unconventional oil and gas extraction activities under their own state laws.

The study will be finalized after review by the Science Advisory Board and public review and comment.

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## New Mexico Recycling Coalition awarded Think Green Grant

The New Mexico Recycling Coalition (NMRC) has been awarded a Keep America Beautiful and Waste Management 2015 Think Green® Grant of \$5,000. NMRC's Think Green Grant is one of 39 awarded to Keep America Beautiful community based affiliates and partner organizations across the country.

The Waste Management Think Green Grants are a part of a merit-based grant program that supports projects implemented to address local community needs.

NMRC is using its Think Green Grant for their Increasing Recycling project. The NM Increasing Recycling program's goal is to develop strategies that will increase recycling in New Mexico to 50 percent. This program launched in 2014 with NMRC working jointly with the New Mexico Environment Department to

host its first stakeholder meeting and present initial research of what has worked in high-performing recycling states and to solicit feedback from attendees. Waste Management was a participant at that meeting. Based on those findings there are five subjects that will be researched further and then presented again for stakeholder feedback to include funding recycling, business recycling, construction and demolition recycling, state agency recycling and measuring recycling.

The objective that this proposal addresses will focus on business recycling best practices. NMRC proposes to research what other states and communities have done to increase business recycling participation and the amount of material diverted.

## EPA hires Williamson to lead Region 2

The U.S. Environmental Protection Agency (EPA) Region 2 has selected Rochester Institute of Technology engineer Dr. Anahita Williamson to be the director of EPA Region 2's Division of Environmental Science and Assessment in Edison, New Jersey. Williamson is currently director of the New York State Pollution Prevention Institute at the Rochester Institute of Technology.

Williamson will direct EPA Region 2's 65 Employee Division of Environmental Science and Assessment in Edison, New Jersey as they oversee the collection, analysis and evaluation of environmental data for EPA monitoring programs.

Williamson has a strong background and extensive experience in the field of

environmental engineering, including manufacturing process modification for improved material recovery and reuse, design for the environment and life-cycle assessment. Prior to joining NYSP2I, she served as a senior engineer at Xerox Corporation where she assisted in implementing companywide sustainability and pollution prevention processes. Williamson led numerous teams at Xerox Corporation in defining environmental opportunities within processes/products by optimizing complex systems.

In 2012, Williamson was recognized with the EPA's Environmental Quality Award and in 2013 she won RIT's Principal Investigator Millionaire Award.

## Gershow Recycling's Can Tabs for Kids Program raises \$2,173 for Sunrise Fund



Maria Marks (left), former student at William Floyd Elementary School, and Jonathan Abrams (center), manager, Gershow Recycling, present a check in the amount of \$2,173 for the Sunrise Fund at Stony Brook to Dr. Robert Parker (right), director, Department of Pediatric Hematology/Oncology, Stony Brook University Hospital, at the Can Tabs for Kids ceremony at William Floyd Elementary School.

Gershow Recycling has pledged to match the \$1,086.50 raised by students at William Floyd School District's elementary schools, Kreamer Street Elementary School in Bellport, Holy Angels Regional School in Patchogue and Our Lady of Mercy Regional School in Cutchogue as part of "Can Tabs for Kids," a program designed to raise funds for the fight against childhood cancer. The money will go to benefit the Sunrise Fund at Stony Brook University Medical Center, an organization that raises awareness and

funds for specific projects to assist local families. Jonathan Abrams, manager, Gershow Recycling, presented the check in the amount of \$2,173 during a special assembly at William Floyd Elementary School.

As part of the Can Tabs for Kids program, students brought in aluminum tabs and placed them in collection bins in their classrooms. This year, Gershow received over 3 million tabs from the students, weighing a total of 2,173 pounds and worth \$1,086.50.

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## WASTE

## Advanced Disposal holds open house for new gas-to-energy plant in Florida

Advanced Disposal partnered with Sarasota County for a landfill open house and ribbon cutting event for the County's new gas-to-energy plant.

Elected officials, media and community members were invited to the landfill for tours of the facility, including the new gas-to-energy plant built by Aria Energy Company. The plant is comprised of 3 engines that can produce as much as 4.8 megawatts of electricity, which is enough to power 2,800 homes. Gas produced by the landfill is converted by the plant's generators. The power created at the facility produces energy that

will be sold around the state of Florida – specifically in Jacksonville, which is where Advanced Disposal originated.

In addition to touring the new gas-to-energy facility, guests were invited to participate in landfill facility tours. This allowed for a greater understanding of where the methane is created to power the generators. Advanced Disposal general manager Tim Ferris provided the landfill tours and answered guests' questions. Sarasota County Landfill is owned by the county and operated by Advanced Disposal – a partnership that has been ongoing since 2002.



General manager Tim Ferris provides tours of Sarasota County Landfill.

## Duke Energy to build two coal ash landfills in North Carolina

Duke Energy plans to submit permits to construct fully lined on-site landfills at the Dan River Steam Station in Eden, North Carolina and the Sutton Plant in Wilmington, North Carolina. The landfills will be located on plant property and will provide a permanent storage solution for more than 6 million tons of coal ash at the two sites.

The projects will also have contingency capacity for additional excavation at the sites, if needed. The proposed landfills are in addition to off-site solutions that Duke Energy submitted to regulators in November 2014 for more than 3 million tons of ash at the plants.

"This plan is a significant step forward in our strategy to close ash basins and manage coal ash across our service area," said John Elnitsky, Duke Energy senior vice president of ash basin strategy. "Our preference is to store coal ash at or near our plant sites, when possible. Siting these landfills on plant property minimizes impacts to the local community while maximizing the safe and efficient storage of coal ash at these locations."

Landfills at each site will feature multiple layers of synthetic and natural barriers. Coal ash will be stored dry in the landfills with additional layers of lin-

ing installed on top of the landfill – effectively containing the ash and separating it from surrounding soil and groundwater.

"Our first priority is ensuring the safety of the public and our environment," said Elnitsky. "We're using a science-based plan, industry-proven technology and advanced engineering to site and construct these fully lined landfills. We will consolidate and contain coal ash at a greater distance from public waters and provide separation from surrounding soil and from groundwater. The excavation plans we developed represent the best option for disposal of ash at these sites."

Duke Energy evaluated multiple excavation and storage options over many months to ensure the safe management of ash for the future at these sites.

The Dan River Steam Station, which was retired in 2012, is one of four coal plants identified as high priority under the Coal Ash Management Act of 2014. Under the law, all ash in basins at the plant site must be fully excavated, with ash stored in a lined landfill or lined structural fill by August 2019.

In November 2014, Duke Energy Carolinas announced it would transport approximately 1.2 million tons of Dan River Station coal ash primarily by rail to the Maplewood Landfill in Amelia County, Virginia. Transportation of ash is expected to begin later this year, while permitting and construction of the on-site landfill takes place at the Dan River Station. Work has already begun on property adjoining the plant to expand existing rail access to facilitate the first phase of ash transport.

Design of the Dan River Station landfill is still underway, and additional

detail will be available when permits for the project are submitted. The landfill construction will require multiple permits from the North Carolina Department of Environment and Natural Resources (NC DENR), as well as local permitting. State permits will be submitted this summer with construction of the landfill expected to begin in 2016, pending necessary regulatory approvals. Landfill operations are scheduled to commence in the first half of 2017.

In November 2014, Duke Energy Progress announced that approximately 2 million tons of coal ash would be transported from the Sutton Plant by train to be used in a structural fill project at a clay mine in Chatham County. Those plans are expected to move ahead, pending receipt of state permits, with ash being delivered to the mine project as early as Fall 2015.

"We must begin moving coal ash as soon as possible in order to comply with the strict timelines laid out in state law," said Elnitsky. "That's why the Chatham County mine project is such an important part of our strategy for the Sutton Plant. We are in discussions with Chatham County leaders now and hope to begin delivering ash to this project soon, even as we develop an on-site landfill for Sutton."

As part of the landfill construction, crews will need to relocate a public access road to Sutton Lake. Access to the lake is expected to remain open to the public throughout construction.

The first of the Sutton Plant landfill permits were submitted to NC DENR in May, with construction of the landfill expected to begin in early 2016, pending necessary regulatory approvals. Landfill operations are scheduled to commence in late 2016.



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## WASTE

# EPA proposes removal of Alexandria Township landfill from Superfund List

After successfully completing all cleanup work and putting into place long term controls to ensure that people's health and the environment continues to be protected, the U.S. Environmental Protection Agency (EPA) is proposing to remove the Crown Vantage Landfill Superfund site in Alexandria Township, Hunterdon County, New Jersey from the federal Superfund list. The inactive 10-acre landfill was contaminated with semi-volatile organic compounds, polychlorinated biphenyls (PCBs) and other pollutants that can seriously impact people's health if significant exposure occurs. A small portion of the landfill sits on the eastern bank of the Delaware River. All cleanup goals that EPA set for the site have been met and a review of conditions confirms people are not exposed to the pollutants in the landfill.

The EPA took steps to ensure that the remaining pollutants at the site are contained by an existing forested cover and a wall that stabilizes the section of the landfill along the Delaware River. The EPA required new deed restrictions that prevent activities that could disturb the site and prohibit any future on-site construction. Long-term monitoring will

ensure that the cover and stabilization wall continue to prevent direct contact with underlying waste and protect against erosion.

Crown Vantage was used as a landfill from the 1930s and until the early 1970s. The landfill reportedly was utilized for the disposal of waste by the adjacent Curtis Specialty Papers mill, as well as by other nearby Riegel Paper Company facilities.

EPA has completed all cleanup work at the Crown Vantage site. Approximately 2,450 drums and waste were removed from the landfill, and the area was filled with clean material. A wall that stabilizes the landfill and prevents materials from reaching the Delaware River was constructed and fencing and signs were installed to keep trespassers from disturbing the surface of the site.

Now that the cleanup is complete, the EPA will conduct reviews every five years to evaluate if the completed work remains protective of human health and the environment. In addition, the EPA will monitor the site and, if conditions at the site change, reserves the right to take future actions under the Superfund program.

# Rehrig Pacific wins bid to replace 500,000 waste containers

Rehrig Pacific Company has been given the final approval from the City of Toronto, Ontario, Canada to provide approximately 500,000 residential organic waste bins.

The new bins were specifically designed to keep out one of the most persistent pests the city faces – raccoons. The new bins feature a unique locking mechanism that prevents these critters from opening the bins and leaving a mess for the city and residents to clean. "These bins will debut the latest technology such as improved animal resistant features and a gravity-



based locking mechanism. The style and size of the bin affords us the efficiencies of automated/semi-automated collection and enhances our ability to divert even more organics from landfill, building upon our leading status as the operators of North America's largest successful organics collection program," added Beth Goodger, general manager of the city's solid waste management services division.

The new bins will be manufactured within the coming months and delivered to the City of Toronto by early 2016.

# Bruce Ranck inducted into recycling hall of fame

Republic Services, Inc. said that an industry icon and Republic forefather, Bruce Ranck, has been inducted into the National Waste & Recycling Association's Hall of Fame. During his 29 year tenure at Browning-Ferris Industries (BFI), Ranck provided extraordinary leadership and vision that brought innovation to nearly every facet of the waste stream. His legacy endures in many of the people and priorities that guide the industry today.

Ranck began his journey with BFI in 1970 as a division operations manager. His progression within the company, from 1970 to 1989, included roles as district manager and regional vice president for the East Central, Mid-Atlantic and North Central regions. During this period, Ranck developed unique insights into every facet of the business that helped define his understanding of and deep appreciation for the customer. By 1989, Ranck was promoted to executive vice president for solid waste operations in North America.

Ranck was named president and chief operating officer of BFI in 1991. He recognized early on in this role that the industry would need to adapt to complex issues, including a changing waste stream, increased regulatory and compliance requirements, technological advancements, and growing customer demands for environmental solutions.

In response, Ranck introduced and implemented a series of strategic initiatives in the 1990s that would professionalize the company, and in the process

position BFI within the marketplace as a highly respected and valuable blue chip company. This included the concept of customer segmentation, which involved building expertise and dedicated divisions around specific customer groups, from general business to health care and medical waste to manufacturing. It represented the largest organizational change at BFI in 25 years, and resulted in all-time high customer retention rates.

In 1995, Ranck was named president and chief executive officer of BFI. He held this position until BFI was acquired by Allied Waste in 1999. Allied Waste would eventually merge with Republic Services in 2008.

As an executive, Ranck earned widespread respect for his business and environmental leadership. He helped to build a company that generated more than \$6 billion in annual revenue, and experienced healthy increases in net income per share, operating margins and return on gross assets. Ranck embraced environmental compliance, proactively addressing new federal and state regulations affecting solid waste landfills. He was an early adopter of waste-to-energy initiatives, establishing business partnerships that would result in the construction of six waste-to-energy facilities. He was also a recycling pioneer, and guided BFI in becoming a worldwide leader in recycling operations.

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## INDUSTRY PROFILE

## A Closer Look

by Donna Currie

## Commercial Waste Company

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In 2008, Baron Abboud was going over his costs for the multi-family housing units he owned, and it struck him that the waste hauling costs had been going up every six months, while at some properties, he'd heard complaints from his tenants that service wasn't exactly stellar, and it was even worse at others.

He called the trash company to see why he was spending \$15,000 per month for inferior trash service. When he was told that the price was firm, Abboud suggested, "What if I buy my own garbage truck and pick up my own trash?"

That idea was laughed at with a comment that they'd heard that a number of times from many customers, and no one ever did it. "I'm a man and my ego was bruised," Abboud said.

Within 30 days, he bought a truck, earned his CDL license, bought trash containers for his properties, and fired the old trash company.

Abboud admitted that he had no idea what he was getting himself into. When he went to buy the truck, he had no clue what the salesman was telling him about the features of the truck.

When the salesman asked Abboud if he wanted to take a test drive, Abboud said, "No, that's okay. A truck is a truck." In reality, he didn't yet know how to drive a truck.

Learning how to handle the trash bins wasn't easy either. He said that when he lifted the second bin to dump it in the truck, he was watching the action in his side mirrors as the arms lifted the bin and dumped the trash into the back of the truck.

When the arms came back to the front of the truck, there was no trash and no bin – he had dropped the bin into the back of the truck. "How do you get a can out of there?" he asked himself. He figured it out.

Despite his early mishaps, Abboud continued driving his truck and picking up trash from his complexes. Soon, friends and business acquaintances started asking if he'd consider picking theirs up as well. He figured out prices and added them to his route. "I didn't even have contracts back then," he said.

Some of the earliest fans of the business were his daughters. Having a dad who was a real estate broker was boring, but a dad who drove a garbage truck was cool. Abboud said that there were times when his wife couldn't pick up one or another daughter at school or an event, and he'd show up in the garbage truck. The girls loved it.

"After about a year and a half, I bought another truck and retired as a truck driver," Abboud said. Now he has a fleet of 11 trucks and over 2,000 containers to service all of his customers, but he's not completely retired from driving. If a driver isn't available and work needs to be done, Abboud will still hop on a truck and drive a route.

Much of his time, though, is spent on sales, where he says he has "almost an instant rapport" with potential customers, because he knows what it's like to be that guy who feels like he's paying too much and not getting the right service. "I get it," he said.

Customer service is one of his biggest priorities, and he'll tell his drivers that he'd rather have them work an extra hour to "do the job right rather than getting it done quickly."

He said that pushing for speed leads to sloppiness at the customers' sites, speeding on highways, and accidents. When drivers are allowed to do the job at a more reasonable pace, they work safer, and it's better for the customers.

Abboud knows first-hand that it's much better to retain a customer than to have to find new customers. When he made that fateful call so many years ago, he didn't intend on canceling his account. "I expected to haggle with the guy," he said, "like when you buy a pickup truck."

Unlike other small businesses in his industry, he's not looking to sell out to a larger company – he intends on staying in business long term and is looking forward to opening his own materials recovery facility in the next few years, so he can do his own sorting and reclaim more recyclable materials from the waste stream.

"Maybe I'll get into street sweeping," he said of future endeavors. "I've never done that, either, but it looks like fun." Is he serious? Anything's possible.



## GLASS

## O-I to acquire Vitro's glass business for \$2.15 billion

Owens-Illinois, Inc. has reached a definitive agreement with Vitro, S.A.B. de C.V., to acquire Vitro's food and beverage glass container business in an all cash transaction valued at approximately \$2.15 billion. Vitro is the largest supplier of glass containers in Mexico. The transaction, which has been approved by the boards of directors of both companies, is subject to approval by Vitro's shareholders and customary regulatory approvals. The deal is expected to close within 12 months.

The transaction provides O-I with a competitive position in the attractive and growing glass segment of the packaging market in Mexico, further enhancing O-I's position as the world's foremost glass container producer. The agreement includes Vitro's 5 plants in Mexico and 1 in Bolivia, which together employ 4,700

people. The current leadership of Vitro's food and beverage glass container business will remain in place following the transaction close. The acquired business is expected to generate estimated annual revenue of \$945 million and adjusted EBITDA of \$278 million. Further, O-I expects to realize approximately \$30 million in run-rate cost synergies by 2018 through a combination of procurement savings and operating efficiencies. The transaction is expected to be accretive to cash flow and earnings per share in the first year after closing.

O-I has secured committed financing from Deutsche Bank to fund the transaction and expects to utilize the strong free cash flow of the combined business to reduce leverage following the transaction.

## Baton Rouge kicks glass recycling

The city of Baton Rouge in Louisiana has negotiated a new recycling contract with Progressive Waste Solutions. The new contract eliminated the option for residents to recycle glass beginning this fall.

Progressive Waste's area manager said the market for glass is depleted with no local buyers for it.

Loads of recycled glass can often be contaminated with trash, sometimes as much as 50 percent trash.

According to the city's recycling director, Progressive requested an additional \$739,000 per year to continue collecting glass. City-parish administrators determined that was cost-prohibitive. They plan to re-evaluate in 2018.

**NEW WORD:** *Epiphany* (n) - an idea that seems like an amazing insight to the conceiver but is in fact pointless, mundane, stupid or incorrect.

—Daniel Dalton

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METALS

# Steel imports decrease by 4 percent in April

Based on preliminary U.S. Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 3,483,000 net tons (NT) of steel in April 2015, including 2,938,000 NT of finished steel (down 3.7 percent and 7.8 percent, respectively, vs. March final data). Year-to-date (YTD) total and finished steel imports are 15,204,000 and 12,606,000 NT, respectively, up 13 percent and 27 percent respectively, vs. the same period in 2014.

Key finished steel products with a significant import increase in April compared to March are standard pipe (up 30 percent), heavy structural shapes (up 26 percent), cold rolled sheets (up 21 percent) and sheets and strip all other metallic coatings (up 14 percent). Major products with significant YTD import

increases vs. the same period last year include line pipe (up 93 percent), heavy structural shapes (up 81 percent), cut lengths plates (up 49 percent), standard pipe (up 49 percent), plates in coils (up 33 percent), cold rolled sheets (up 31 percent), reinforcing bars (up 30 percent), sheets and strip galvanized hot dipped (up 29 percent), tin plate (up 29 percent), oil country goods (up 23 percent), hot rolled sheets (up 17 percent), sheets and strip all other metallic coatings (up 16 percent) and wire drawn (up 12 percent).

In April, the largest volumes of finished steel imports from offshore were from South Korea (511,000 NT, down 9 percent vs. March final), Turkey (214,000 NT, down 48 percent), China (293,000 NT, up 8 percent), Japan (226,000 NT, up 25 percent) and Taiwan

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	APR 2015	MAR 2015	2014 Annual	2015 Annual Est.	% Change 2015 Annual vs. 2014
SOUTH KOREA	511	561	5,449	7,168	31.5%
TURKEY	214	409	2,199	3,630	65.1%
CHINA	293	272	3,189	3,085	-3.3%
JAPAN	226	181	2,106	2,586	22.8%
GERMANY	120	130	1,278	1,629	27.4%
TAIWAN	123	168	1,188	1,528	28.7%
BRAZIL	110	91	810	1,496	84.5%
All Others	1,340	1,375	17,531	17,048	-4.8%
TOTAL	2,938	3,186	33,751	38,428	12.1%

(123,000 NT, down 27 percent). For the first four months of 2015, the largest offshore suppliers were South Korea (2,389,000 NT, up 52 percent), Turkey

(1,210,000 NT, up 98 percent), China (1,028,000 NT, up 5 percent), Japan (862,000 NT, up 22 percent) and Germany (543,000 NT, up 44 percent).

## Metal shredders fined for safety

The Occupational Safety & Health Administration (OSHA) issued Metal Shredders 1 willful and 8 serious safety violations involving electrical safe work practices and has proposed penalties of \$115,000 to the company.

OSHA also issued Cohen Brothers, Metal Shredders' parent company 3 serious safety violations for failing to train employees in electrical safe work practices, with proposed penalties of \$21,000.

Investigators found Metal Shredders failed to verify that electrical lines were absent of voltage after turning off the dis-

connect switch inside the transformer substation cabinet, resulting in a willful violation. The 10 year employee attempted to enter the substation by climbing over a concrete wall and fence on the side of the transformer substation and his foot touched the electrical line, which was still energized, and was electrocuted.

"This was a tragic death that could have been prevented by following basic safety practices for working with high voltage transmission lines," said Ken Montgomery, OSHA area director in Cincinnati.

## Metallix's precious metals expands

Metallix Refining Inc. has acquired a new precious metals recycling facility from Umicore. The state-of-the-art scrap catalytic converter processing facility located in Maxton, North Carolina was built four years ago and will allow Metallix to significantly increase their catalytic converter recycling capacity and stand by their mission of continuously improving their precious metal recycling process and technology.

The Maxton facility has the capacity to process 4 million pounds per year of ceramic converters and is one of very few

locations in the world with a PGM recycling process for metal foil converters with the capabilities to process 3.5 million pounds per year of this difficult material.

This new facility complements Metallix existing refinery in Greenville, North Carolina which recycles and refines other types of scrap precious metals from industries such as electronics, jewelry and specialty chemicals.

Metallix will retain the majority of the site's expert employees in an effort to ensure a seamless transition and ensure maximum near and long-term growth.



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METALS

U.S. manufacturing keeps St. Lawrence Seaway bustling

U.S. manufacturing is expected to keep ship traffic on the St. Lawrence Seaway bustling this season after a strong start for general cargo shipments through the navigation system.

According to the St. Lawrence Seaway, shipments of steel, aluminum, wind turbines and other heavy machinery were up by 5 percent to 629,000 metric tons from April 2 to May 31. Steel and Canadian aluminum headed to U.S. Great Lakes ports such as Oswego, Detroit and Toledo to be used in the thriving automotive industry. Local manufacturers also exported mining equipment via the Port of Milwaukee to Europe.

Looking ahead, U.S. energy projects are expected to boost wind turbine shipments in the Great Lakes this season. The Port of Duluth-Superior has already booked 20 ships for its general cargo dock this year, including multiple loads of wind turbine components. The Port Authority recently broke ground on its \$17.7 million Port of Duluth Intermodal Project – a dock redevelopment project that will further enhance its heavy-lift and project cargo capacity.

While it was another late start to the season due to icebreaking constraints, grain from Canada and the U.S. continued to flow out of the St. Lawrence Seaway to export markets, totaling 1.9 million metric tons so far this season, up 7 percent over 2014. And dry bulk shipments, including road salt, coke for steel production, and construction materials totaled 1.7 million metric tons, up four percent.

Despite these star performers, year-to-date total cargo shipments via the St. Lawrence Seaway were 6.4 million metric tons, down by 7 percent compared to 2014 due to low global prices for North American iron ore and coal exports. Iron ore shipments via the Seaway were down 30 percent, while coal shipments dipped 27.5 percent compared to the same period the year before.

Novelis SA president awarded

Tadeu Nardocci, senior vice president, Novelis Inc. and president, Novelis South America, received the Lifetime Achievement Award at the Platts 2015 Global Metals Awards ceremony in London.

Nardocci was honored with the Lifetime Achievement Award for his contributions and dedication to advancing the aluminum industry globally over the past three decades. Prior to his current role, he served as president of Novelis Europe, senior vice president of Global Strategy and R&D, and managing director of Alcom (Aluminum Company of Malaysia), among other roles. His commitment to advancing the industry is exemplified in his role as chairman of the European Aluminum Association board in 2011 and 2012 and vice president of the Brazilian Aluminum Association in 2008, providing strategic direction for the industry on two continents.

Novelis also was honored as a finalist for the Recycling Leadership Award for its industry-leading recycling program, the Breakthrough Innovation of the Year for its state-of-the-art automotive sheet finishing lines in Oswego, New York, and Changzhou, China and the Corporate Social Responsibility Award.

Metalico agrees to sale to Total Merchant Ltd.

The board of directors of Metalico, Inc., an operator of scrap metal recycling facilities primarily in the eastern Great Lakes corridor, has agreed to sell the company to Total Merchant Limited for total consideration of approximately \$105 million.

The all-cash deal will include a payment to Metalico's stockholders of \$0.60 for each share of Metalico common stock owned by them as of the date of closing. The price includes roughly \$44 million for Metalico's outstanding equity plus the cost of retiring the company's primary term and institutional senior and convertible debt, estimated at approximately \$45 million and the assumption of approximately \$16 million of additional debt as of June 15, 2015.

Total Merchant is an investment vehicle formed to seek appropriate opportunities in the U.S. metals and commodities market. Total Merchant is controlled by Chung Sheng Huang, the chairman of the board and managing director of Ye Chiu Group, one of the leading recyclers and producers of aluminum and aluminum alloys in the world and a prominent Asian scrap metal recycler with operating facilities in China and Malaysia.

Under the terms of the governing merger agreement, a subsidiary of Total Merchant will merge with and into Metalico, making Metalico a wholly owned subsidiary of Total Merchant. The merger is subject to certain closing conditions, including approval of the merger agreement by holders of a majority of Metalico's outstanding common stock and other customary conditions. However, no regulatory approval is required.

The transaction is expected to close in the third quarter of 2015, but the dates for Metalico's stockholder meeting to vote on the merger agreement and for closing the merger have not yet been determined, although the merger agreement has a termination date of September 21, 2015 and Metalico has agreed with their senior lenders that the merger should be completed by August 31, 2015.

Under the terms of the agreement, Metalico has agreed not to solicit alternative proposals for an acquisition of the company. However, Metalico is able to consider unsolicited proposals pursuant to the exercise of its board of directors' fiduciary duties with Total Merchant having customary rights to match any proposal. Metalico would be required to pay Total Merchant a termination fee equal to \$2,245,930 (corresponding to 3.6 percent of the value of the fully diluted equity) if Metalico terminates the merger agreement to accept a superior proposal. In addition, Total Merchant has agreed to a penalty of \$3,119,347 (corresponding to 5.0 percent of the fully-diluted equity) if it fails to close the transaction assuming all closing conditions have been satisfied. Total Merchant has agreed to escrow this amount. Total Merchant has also indicated it intends to retain Metalico's management and all other personnel.





Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$182.00	\$187.00	\$185.00	\$250.00	\$279.00
#1 Bundles	per gross ton	169.00	171.00	182.00	245.00	268.00
Plate and Structural	per gross ton	180.00	180.00	193.00	254.00	287.00
#1 & 2 Mixed Steel	per gross ton	175.00	180.00	189.00	242.00	262.00
Shredder Bundles (tin)	per gross ton	105.00	107.00	147.00	185.00	189.00
Crushed Auto Bodies	per gross ton	105.00	107.00	147.00	185.00	189.00
Steel Turnings	per gross ton	91.00	90.00	94.00	110.00	160.00
#1 Copper	per pound	2.40	2.10	2.50	2.42	2.51
#2 Copper	per pound	2.25	1.98	2.38	2.31	2.33
Aluminum Cans	per pound	.45	.50	.52	.54	.50
Auto Radiators	per pound	1.50	1.50	1.70	1.45	1.69
Aluminum Core Radiators	per pound	.50	.50	.60	.65	.56
Heater Cores	per pound	1.18	1.10	1.20	1.08	1.39
Stainless Steel	per pound	.45	.42	.58	.55	.56

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

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

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## AUTOMOTIVE

# Two electric vehicle world records broken

Team Uber Qik drives Tesla from Los Angeles to New York in 58 hours and 55 minutes

The electric vehicle (EV) coast-to-coast world record was unofficially broken by a team of 6 with an elapsed drive and charge time of just 58 hours and 55 minutes. Drivers Rodney Hawk, Deena Mastracci and Carl Reese departed from Los Angeles City Hall in a Tesla P85D and arrived at New York City Hall in 58 hours and 55 minutes, setting two new records for the fastest U.S. coast-to-coast time and least charging time in an EV.

Accompanied by witnesses and timekeepers, Anthony Alvarado, Matt

Nordenstrom and Johnnie Oberg, Jr., Team Uber Qik, led by Reese, broke the previous EV U.S. coast-to-coast time record of 67 hours and 21 minutes set by a team from Edmunds.com in summer 2014. While the team broke two records during this trip, Guinness only recognizes the "least non-driving time to cross the U.S. in an electric vehicle," meaning the shortest amount of charging time. The team logged just 12 hours and 48 minutes plugged in at Tesla's growing network of supercharging stations conveniently located along major



Team Uber Qik from left to right: Johnnie Oberg, Jr., Rodney Hawk, Deena Mastracci, Carl Reese, Matt Nordenstrom, Anthony Alvarado.

freeways and free to use for all Tesla owners.

"I was inspired by my grandfather who took me on road trips as a child and Alex Roy who broke the cross-country record in a gasoline vehicle in 2006," said Reese of Santa Clarita, California. "Tesla is such a compelling car company that is creating tens of thousands of American jobs, with Tesla Motors in Fremont, California, Giga Factory in Sparks, Nevada, and Space X in Hawthorne, California."

Global fleet tracking company GPS Insight sponsored Team Uber Qik's record-breaking trip by providing the GPS tracking equipment necessary for third party verification, as required by Guinness Book of World Records.

Other sponsors include InspectMobile.com, TeslaGrille.com and Chalkolot.com. The 691 horse-powered Tesla P85D used for the trip is owned by Reese and Mastracci. The team of timekeepers followed the drivers in a Chevrolet Suburban.

## Salvaging Millions

by Ron Sturgeon  
Autosalvageconsultant.com

### Tools for success – an ongoing series

#### Financial statements and metrics

The first article in this series listed several tactics to increase your business success. Each of the successive articles takes a closer look at one of those tactics. Last month, we talked about the importance of keeping perfect credit and building long-term banking relationships.

The next two articles cover topics important to your business success: financial statements and metrics.

I can hear the groaning. I know you hate the financial statements, but they are unavoidable. I will give you one escape hatch: If you have enough employees, you can delegate preparing them to a trusted employee. If your business is small and you can't delegate, then buck up.

You must have monthly financial statements by the 10th of the month regardless of whether you do them or someone else does. I don't expect you to understand every single line item, but I do want you to dig into your Profit & Loss (P&L) by the 10th. Make sure that your P&L shows the prior 13 periods so that you can see how you were doing in the same month last year and in all the months in between.

For the moment, let's shine a light on the expenses. Know that wherever you shine your light, you will improve. Once you shine the light on expenses, you don't have to be a college graduate to see which ones have gone up and which ones have stayed the same or gone down since last year. Make sure your financials show percentage of sales also

so that you can see actual dollars in addition to percentages. You will figure out very quickly which of the expenses need your attention.

If you make poring over your financials a monthly habit, you will get better at seeing where you need to make improvements and better at seeing whether the changes you are making are affecting your results the way you expect.

That last point is why you need those financials on your desk by the 10th. You need to get them analyzed in time to make a change so that you can see results when you look at financials next month.

Like every other owner, you get 12 opportunities to review your monthly financials. If you don't get them until late in the month, you can't make the needed changes at the pace you should. As I see it, if your financials aren't on the desk by the 10th, you are giving away 6 of your 12 opportunities and will solve problems half as fast as a competitor who gets timely financials and acts on them with an effective program. Why wait one month to start working on a problem?

Remember also that the advantage of timely financial analysis and action is cumulative. How much farther along could you be if you used every month to solve issues revealed by your financials? Once you see problems and start working on them, you will see results and get excited about making your business all that it can be.

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

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

## KAR expands Digital Services Group

KAR Auction Services, Inc. has expanded the company's Digital Services Group with the acquisitions of Autoniq and MobileTrac, which is doing business as instaVIN. Autoniq provides real time information such as vehicle pricing, history reports and market guides to dealers.

MobileTrac provides retail and wholesale car buyers with instaVIN's vehicle history reports as well as the instaLEAD and instaDEAL technology through which automotive dealers can attract and structure retail transactions with consumers online.

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## AUTOMOTIVE

### Bill ensures motor oil lasts 10,000 miles

The California Senate Committee on Environmental Quality approved legislation that would ensure all automotive oil sold in California provides 10,000 miles of lubrication. Senator Ben Allen (D-Santa Monica) authored SB 778 to protect both consumers and the environment.

"Right now we're seeing millions of Californians paying for motor oil that performs poorly and requires expensive oil changes far too often," said Senator Allen. "By improving motor oil standards, we can save consumers money, improve gas mileage and finally eliminate unsafe oils that can actually damage our cars and trucks."

By reducing the number of oil changes, SB 778 will also reduce one of the largest hazardous waste streams in California. Over 115 million gallons of motor oil are sold in the state each year, but only about half of it is recycled.

In addition, many drivers spend 2 to 3 percent more on gasoline because low quality motor oil causes a decrease in gas mileage; over the course of 15,000 miles of driving, these drivers spend an average of 45 dollars more on gasoline. SB 778 is one of several bills in the Senate seeking to implement Governor Jerry Brown's recently announced goal of reducing petroleum use in cars and trucks by up to 50 percent by 2030. It will also help the state meet the goal of reducing greenhouse gas emissions by 40 percent below 1990 levels by 2030.

Low quality motor oil also contains hazardous materials and just one gallon of used motor oil can foul the taste of 1 million gallons of drinking water.

SB 778 would require all automotive oil sold in California to provide 10,000 miles of safe lubrication by 2018.

### FDEP awards auto company

JM Family Enterprises, a diversified automotive company, recently received a Recycling Recognition Program award from the Florida Department of Environmental Protection (FDEP) for their successful recycling efforts in 2014.

To obtain the honor, candidates must demonstrate a recycling rate at or above the state recycling goal of 50 percent – JM Family achieved a 64 percent recycling rate between its Deerfield Beach headquarters, JM Lexus dealership in Margate and its Jacksonville vehicle processing facilities.

The company recycles everything from traditional consumer commodities such as aluminum, glass, paper and plastic to miscellaneous metals, textiles and wood. This equates to over 4.48 million pounds of recycled material including used oil, anti-freeze, construction and demolition debris, tires and soft and rigid plastics such as rim and spare tire wheel covers.

## PLASTICS

### Over 190 tons of scrap collected, sorted and recycled at NPE2015

SPI and its partners recycled 87 percent of overall waste generated at the show

At NPE2015, 82 exhibitors participated in the program to recycle processing scrap generated on the show floor, twice as many as at NPE2012, causing a dramatic increase in the amount of material collected for recycling.

Commercial Plastics Recycling (CPR), the official recycling company for NPE2015, collected, sorted, and recycled 191 tons of processing scrap, which was 62 percent more than was collected at NPE2012 and 235 percent more than at NPE2009. As the show has grown and the amount of scrap has increased, the recycling program has increased its capacity, ensuring plastics scrap is being managed properly. "We reached out to exhibitors well in advance of NPE2015 to find out their

needs and get a clear idea of how we should prepare," said Paul Benvenuti of CPR. "Another big help was having our containers and trucks on site during setup since machines were being operated and generating scrap well before the start of the show."

Altogether, NPE2015 generated 518 tons of waste at the Orange County Convention Center, including both processing scrap and post-consumer waste. Of the total, 452 tons, or 87 percent, was recycled. CPR reclaimed the processing scrap at its recycling facility in Tampa, Florida, and through a contract carrier, the Orange County Convention Center arranged for recycling of post consumer waste. All of this was driven by NPE's Recycling Committee, comprised of rep-



representatives from companies exhibiting at NPE2015, and SPI's director of operations, Lori Campbell.

### New technologies help turn plastics into fuel

The American Chemistry Council (ACC) and Ocean Recovery Alliance shared new tools aimed at helping communities evaluate their potential to adopt plastics-to-fuel technologies. A growing number of experts believe using our non-recycled plastics to create valuable fuels and manufacturing feedstocks could help dramatically reduce ocean litter and deliver eco-

nomie and environmental benefits to local communities.

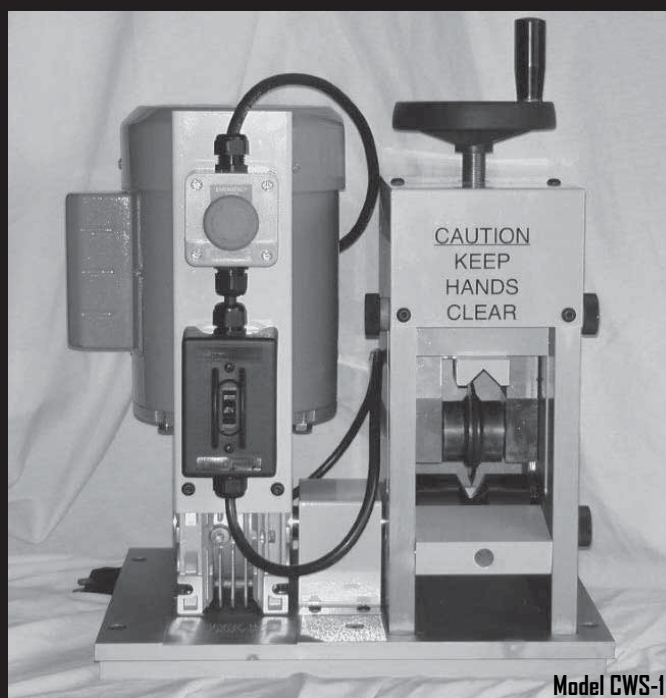
The "2015 Plastics-to-Fuel Developers Guide" and "Cost Estimating Tool for Prospective Project Developers" were designed to help potential investors, developers and community leaders determine whether this rapidly growing family of technologies could be a good fit for meeting local waste man-

agement needs and local demand for the relevant commodities. Available at no cost, these tools provide an exploration of commercial technologies, operational facilities and things to consider.

Known as "pyrolysis," these technologies can be used to manufacture a variety of products.

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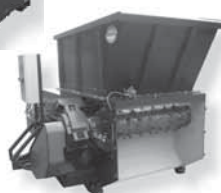


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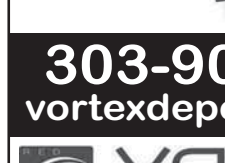
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# BUSINESS BRIEFS

## Whitney appointed CEO of Liberty Tire Recycling

■ Liberty Tire Recycling has appointed Scott W. Whitney as chief executive officer effective immediately. Whitney will succeed Bill Fry, who served as chief executive officer through the company's successful financial restructuring, completed in March 2015. The recapitalization of the company involved Third Avenue Management LLC, Redwood Capital Management LLC and Knighthead Capital Management LLC, among others.

Whitney was previously chief executive officer of Greenwood Fuels, an renewable energy company, from 2012 to 2015. Before his tenure at Greenwood Fuels, Whitney was with Covanta Energy, where he served in senior management and executive roles from 1987 to 2012.

He most recently served as president of Covanta Holding Corporation's European group. Prior to that, he served as vice president of business development at Covanta Energy Group Inc. and oversaw the development of Covanta's waste-to-energy, independent power and water and wastewater treatment businesses in North America, South America, Europe and the Middle East.

*"I have been impressed with the urgency of doing. Knowing is not enough; we must apply. Being willing is not enough; we must do."*

—Leonardo da Vinci

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## Novelis appoints H.R. Shashikant senior VP

■ Novelis appointed H.R. Shashikant to the position of senior vice president and chief human resources officer, effective immediately.

Shashikant was previously group executive president, group human resources, for the Aditya Birla Group (ABG), the Mumbai-based conglomerate of which Novelis is a part. In his new role, Shashikant will be based at Novelis' global headquarters in Atlanta, Georgia.

In his 29 year career, Shashikant has held progressively senior human resources leadership roles in a number of global organizations. He joined ABG as a vice president in 1999 and was instrumental in setting up human resources systems, processes and Centers of Excellence across the group. In 2013, Shashikant received ABG's Outstanding Leader Award.

Shashikant succeeds Leslie W. Joyce, Ph.D., who has left Novelis to pursue other career opportunities.

## Mid America Recycling acquires WM plant

■ Houston-based Waste Management has sold its recycling facility located in Des Moines to Mid America Recycling.

The facility, one of Des Moines' largest recycling operations, will run under the name Mid America Recycling. It will be run by several principals who originally developed the Mid America plant, including Mid America president Mick Barry. The new team also includes Kelley McReynolds, vice president, co-owner and general manager, Lincoln operations; and Scott Emery, co-owner and general manager, Des Moines operations.

"We feel that now is the right time to re-enter the recycling market in the Des Moines area," said Barry, a former owner of the company.

Terms of the transaction were not disclosed.

## Changes made to Bosch Rexroth management

■ Paul Cooke has been appointed regional president Americas and president and chief executive officer of Bosch Rexroth Corporation U.S.

Cooke joined Bosch Rexroth in 1982 and has served in positions of senior leadership at Bosch Rexroth in the United Kingdom and Germany, most recently as senior vice president sales and industry sector management for Machinery and Engineering. Cooke has over 30 years of experience in both industrial technology and general management. He received his Bachelor in Mechanical Engineering from The University of Newcastle upon Tyne, England.

Berend Bracht, who is currently regional president Americas and president and chief executive officer of Bosch Rexroth Corporation U.S. is resigning from the organization for personal reasons.

## Gunder named Akro-Mils Sandusky plant manager

■ Akro-Mils has named Chad Gunder plant manager for its Sandusky, Ohio, manufacturing facility.

Before his assignment at Akro-Mils, Gunder joined Buckhorn Inc. in June 2008 as operations manager in the Springfield, Missouri plant. In that position, he was in charge of the facility's injection molding production group and all supporting departments, such as maintenance, tooling and new product development.

Prior to joining Buckhorn, Gunder was program manager for Schoeller Arca Systems in Detroit, Michigan; a journeyman machine repairman for Masco Tech in Royal Oak, Michigan; and an Aviation Mechanic for four years in the U.S. Navy.

## BACE hires Pond to be regional director of sales

■ BACE, a global manufacturer of balers and compactors for the recycling and waste disposal industries, has appointed Michael Pond as its new director of sales for the southwest regions of North America and Mexico. Pond will be responsible for sales and marketing growth in the region, along with new-product exploration and opening up alternative mainstream markets.

Pond joins the BACE team from RiverRoad Waste Solutions in Tinton Falls, New Jersey, where he served as director of sales. He brings more than 25 years of experience in sales, marketing, and technology for various products and industries, including distribution, manufacturing and third-party management.

## Hyundai Construction appoints service manager

■ Hyundai Construction Equipment Americas, Inc., (HCEA) has appointed Ernesto Lopez as service manager – construction equipment. In his new role, Lopez manages the HCEA service, warranty and training teams that support the company's dealers and customers.

Lopez joins Hyundai Construction Equipment Americas after serving for seven years as director of product support operations for a leading construction equipment manufacturer. His 20 plus year career in the industry includes management positions with a global manufacturer of construction and forestry equipment and a leading equipment rental company. Lopez also has nearly 15 years of experience as an officer in the U.S. military.

## Dave Olson returns to sales team at Masaba

■ Bulk material handling equipment manufacturer, Masaba, said that Dave Olson is returning to their inside sales team.

Olson is a graduate of The University of South Dakota and was with Masaba for 10 years prior to pursuing other opportunities in 2013. He has experience in purchasing, logistics and outside sales.

## Ron Pettit joins GBB as principal associate

■ Gershman, Brickner & Bratton, Inc. (GBB) announced that Ronald W. Pettit has joined the firm as principal associate focusing on projects that integrate technology tools into collection service improvements, further enhancing GBB's consulting services to streamline, create operational efficiencies, and improve waste collection operations.

Pettit's experience includes over 30 years in software technology in various management roles with Unix, Linux, and Windows systems, enterprise application servers, and mobile devices. He most recently spent eight years, in the waste industry, as executive vice president, chief technology officer, and vice president of research and development at Routeware, a provider of operations efficiency technology to organizations with fleets of vehicles.

He has in-depth knowledge of the waste vehicle's environment and its hardware requirements; knowledge of many technology vendors in this space; understanding haulers' needs for preparing a technology deployment; and understanding the dozens of performance measurements in improved operations with in-cab management.

## Advanced Disposal adds Jody Jackson as manager

■ Advanced Disposal welcomed Jody Jackson as general manager. In his new role, he will be responsible for the overall safety, maintenance, sales and accounting staff and functions of the commercial and residential operations for the company's Callahan, Florida location which services customers throughout Nassau, Baker and north Duval, Florida counties as well as Camden, Charlton, and Brantley Counties in Georgia.

Jackson has more than 33 years of experience in the solid waste industry. He has held various manager-level positions in the solid waste industry and also previously owned his own company.

## Turner named Vecoplan's assistant service manager

■ Vecoplan, LLC has promoted Misty Turner to the position of assistant service manager. Responsibilities of her new position include connecting customers and field technicians with Vecoplan's internal troubleshooting service technicians, via the phone and internet. She will also oversee the organization and scheduling of Vecoplan's network of certified service personnel throughout North America. Ensuring that the right service people are where they need to be, when they need to be, with the right parts, to get all maintenance and service issues handled in a timely and professional manner.

Turner joined Vecoplan in March 2012 as a service administrator. She brings 10 years of management and service experience to her new job, including 3 years as accounts receivable manager at HEP Direct.



## BUSINESS BRIEFS

### Travis Body & Trailer names new vice president of sales

■ Travis Body & Trailer, Inc., a manufacturer of end dumps, bottom dumps, transfer trailers and specialty dump trailers, hired Greg D. Smith as its new vice president of sales and marketing.

Smith's main responsibilities are to oversee Travis' sales staff and marketing efforts. In addition to sales and marketing, he will also work closely with the company's management team and growing dealer business.

Smith brings over 30 years of experience in the trailer, truck and equipment industries to his new role. Prior to joining Travis, he was vice president of sales for Talbert Manufacturing, Rensselaer, Indiana, where he held similar responsibilities. Before that, he worked in leadership roles at Fontaine Modification, ATDynamics, TBEI and Allison Transmission, a Division of GM.

### Gold Medal to acquire two organizations

■ Gold Medal Services, LLC, a waste and recycling services company, disclosed that its operating subsidiaries have executed definitive purchase agreements to acquire substantially all of the assets of Casworth Enterprises, Inc. and Blue River Resources, LLC.

Casworth Enterprises, Inc. provides commercial and residential waste collection services in southern New Jersey. The operations will be moved to Gold Medal's Deptford, New Jersey Hauling Division. Casworth's principal, Frank Holsworth, and his team will join the Gold Medal team.

Blue River Resources, LLC operates a material recovery facility (MRF) in Wilmington, Delaware. The MRF currently processes commercial and residential recyclables and is permitted to process construction and demolition materials. Blue River's management team and staff will also join the Gold Medal team.

Gold Medal expects the transactions to close within 30 days, subject to final regulatory approval.

### New KPI-JCI and Astec sales manager hired

■ KPI-JCI and Astec Mobile Screens has hired Said Vivas Saenz as its new regional contract sales manager for Mexico and Central America.

In his new position, Vivas Saenz will be responsible for customer and dealer development for KPI-JCI and Astec Mobile Screens in Mexico and Central America. He will also work closely with the Astec Aggregate and Mining Group, which internationally markets KPI-JCI and Astec Mobile Screens, Breaker Technology Inc., Tel-smith and Osborn products.

Previously, Vivas Saenz worked for Sandvik Mining and Construction in Mexico as a business line manager for Mexico and Central America for Sandvik's mobile crushing and screening line.

### RMT Equipment moves headquarters to Quebec

■ RMT, a North American distributor of onboard weighing and backup camera systems built for heavy equipment, has opened its new 6,000 sq. ft. head office and warehouse facility in Blainville, Quebec, near the international transportation hub of Montreal.

Designated as the North American headquarters for global manufacturing including VEI Loader Scales, Track-Vision Safety Backup Camera Systems, SciTronics belt scales and metal detectors, and BRT onboard truck scales, the Blainville facility integrates a wide range of resources for parts and service support, factory training and product development.

The new location features a fully equipped training center with hands-on learning and interactive media for dealers and customers and its modern interior design provides natural lighting and lines of site for easy interaction amongst RMT's head office team.

### Sicon appoints director of business development

■ Sicon, a solution supplier for scrap treatment and processing has hired George Bond, an experienced and recognized expert in his field, for its team.

Effective immediately, Bond will assume his position as director for business development in the Sicon team. He has many years of practical experience in the steel and scrap recycling industries and is well acquainted with both worlds and their daily challenges, knowing full well how difficult it is in today's climate for scrap recyclers as well as for steelworks to remain competitive. The now extended team is ready to offer its customers focused support to meet these challenges.

Bond started his career in 1977 at the former Co-Steel company where he worked as meltshop metallurgist in the British plant of Sheerness Steel. After nine years in the development department, Bond was given responsibility for scrap processing. Here, he applied himself to improvement of the scrap qualities which directly lead to an increase in raw steel yield.

In 2014, Bond decided to leave the operator segment of the scrap industry and instead to develop methods of raw material preparation, a key factor for melt shop efficiency in steelworks. The result is the new concept of "Cold Steel-making", an innovation in this industry sector.

### Nucor declares 169th consecutive cash dividend

■ The board of directors of Nucor Corporation declared the regular quarterly cash dividend of \$0.3725 per share on Nucor's common stock.

This cash dividend is payable on August 11, 2015 to stockholders of record on June 30, 2015, and is Nucor's 169th consecutive quarterly cash dividend.

### Alpine CFO appointed to state recycling committee

■ Alek M. Orloff, chief financial officer of Alpine Waste & Recycling, has accepted an appointment to a state committee that oversees grants for recycling programs.

The 13 member committee is appointed by the Pollution Prevention Advisory Board, which works within the Colorado Department of Public Health and Environment. Orloff will fill one of the six positions on the Assistance Committee allocated to representatives of nonprofit and for-profit entities.

Established in 1992, the board provides overall policy guidance, coordination and advice to the Colorado Department of Public Health and Environment on pollution prevention activities.

In 2007, the Colorado Legislature established the Recycling Resources Opportunity Act, with a fund to award grants for appropriate projects.

Orloff previously served six years on the Colorado Solid and Hazardous Waste Commission. He was selected in 2009 as one of the Denver Business Journal's "Forty Under 40," a list honoring 40 Denver business leaders under the age of 40. In 2008, he was recognized by the Denver Business Journal as one of Denver's "Outstanding CFOs."

### Chris Kete joins Wastequip to lead its plastics division

■ Wastequip has added an executive leadership position at its corporate headquarters. Industrial manufacturing veteran, Chris Kete, has joined the company's plastics division, where he'll lead business and brand strategy for the Toter brand.

In this role, Kete will oversee sales, marketing, manufacturing, operations, supply chain and customer service for one of Wastequip's largest divisions. He will be responsible for achieving Toter's long-range growth plans, setting business strategy and building strategies that grow revenue, expand the customer base and take market share.

Kete brings almost two decades of experience in the manufacturing industry, previously serving in executive leadership positions with The Horsburgh & Scott Company, Industrial Service Solutions, Meritor and Cummins, Inc.

Kete earned his Bachelor of Science in Chemical Engineering from Cornell University, and then served in the U.S. Navy from 1994 to 1999 as a submarine warfare officer. After his stint in the armed forces, he earned his Master of Business Administration from Harvard Business School, where he was a George F. Baker Scholar.



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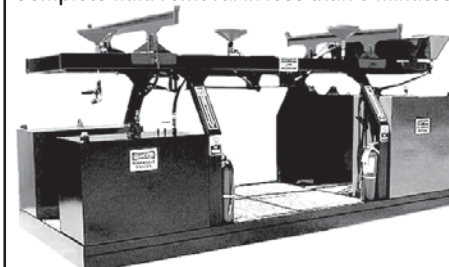
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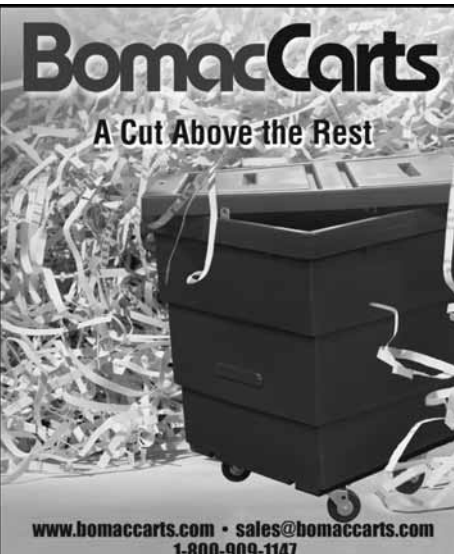
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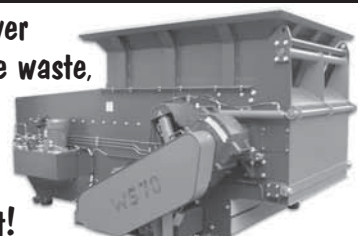
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## Progress to electronics recycling threatened

by MIKE BRESLIN

mbreslin@americanrecycler.com

Over the last decade or so there has been remarkable progress in recycling electronic devices, but e-waste recyclers are facing enormous challenges these days. In the not too distant past, most consumers dumped their old electronics in the trash destined for landfills, generally unaware of the toxic implications to land and water pollution or e-waste consolidators would pack containers with old electronics and ship them overseas for cheap, dangerous scavenging. Gradually, however, the U.S. developed a profitable e-cycling industry committed to safe, responsible disposal. But that model is under pressure as the economics of U.S. e-waste recycling are changing.

One measure of progress are recycling programs and research conducted by the Consumer Electronics Association (CEA), a trade association with more than 2,000 electronic companies as members representing the \$286 billion U.S. consumer electronics industry.

CEA's most significant contribution to recycling is its eCycling Leadership Initiative (ELI) program, which completed its first year in 2012. Participants arranged for the responsible recycling of 460 million pounds of consumer electronics in 2011, a 53 percent increase over the 300 million pounds recycled in 2010. Additionally, electronics manufacturers and retailers increased the number of recycling drop-off locations for consumers nationwide to nearly 7,500 from just over 5,000 in 2010.

Fast forward to April of this year when the CEA reported that for 2014 the U.S. responsibly recycled 660 million pounds of electronics. That more than doubled the 300 million pounds of recycling in 2010. The 2014 record shows increased collaboration among consumer electronics manufacturers, retailers, collectors, recyclers, non-governmental organizations and governments at all levels.

However, there is little, reliable or recent data on the overall recycling rate for electronics. The best we have is from the U.S. EPA which estimated that the U.S. generated 3,412 million tons of e-waste in 2012. Of this amount, 1 million tons or 29.2 percent was recycled, which was up from 25 percent in 2011. While a 29.2 percent recycling rate for 2012 leaves substantial room for growth it also signifies remarkable progress from the 10 percent rate for 2000... nearly a triple increase over 12 years.

A major contributing factor affecting the growth of both the e-cycling rate and reusing electronic devices has been the involvement of the federal government. On America Recycles Day in



Professional disassembly of electronics is often required and highly labor intensive at certified e-cyclers.

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November 2010, president Obama announced that government would lead by example and establish a national strategy for responsible electronics stewardship, including improvements to federal procedures for managing electronic products. It resulted in the National Strategy for Electronics Stewardship (NSES) which in July, 2011 established a unified framework to evolve electronics stewardship. Actions identified by NSES help ensure that government electronics are designed, purchased, and managed in a more sustainable manner, help protect health and the environment from harmful effects of unsafe handling and disposal of used electronics, and promote new and innovative technologies.

The Electronics TakeBack Coalition (ETBC) is a national coalition of non-profit organizations that promotes green design and responsible recycling in the electronics industry. Barbara Kyle, national coordinator for the ETBC commented on the e-recycling rate and the new challenges being faced by U.S. e-cyclers. "I think laws that states have passed have been crucial to the recycling rate going up. It's not coincidental that the numbers didn't go up for many years until the states began passing take-back laws. Unfortunately, not all states laws are strong enough to make much difference. Twenty-five states have actually passed some type of legislation that mandates statewide e-waste recycling. 23 of those states require manufacturers

to take-back used products for recycling. California and Utah have different models."

Kyle explained that some state laws only require electronics manufacturers to have a recycling program, but in some states many manufacturers will just offer a mail-back program. Unfortunately, few people are willing to mail in their electronics. Other states have specific performance requirements that manufacturers have to meet, beyond just offering a program. States like Washington, Oregon, Minnesota, Wisconsin, Illinois, New York, Maine and Vermont have stronger take-back laws and are seeing more significant recycling numbers.

Kyle does not think the 29.2 percent recycling rate of 2012 for electronics has substantially increased. Many take-back laws were passed in 2007 and 2008, which accounted for much of the growth in 2012 reflected by the EPA data. Also, leading up to 2012, several states passed landfill bans of e-waste which boosted the rate.

"After the economy tanked, we did not see a lot more states passing producer take-back laws," Kyle said.

Kyle is actually worried that recycling rates will go down because the hottest sellers have been smartphones and tablets. When it comes to recycling them, it often costs more to remove batteries than a recycler can make sending batteries to smelters for metal value. She's troubled that manufacturers are

making products that are not economical to recycle. Some products, if not too old, recyclers happily take because they have reuse and resale value. Recyclers can also make money selling parts, but at end of life many products are unprofitable to recycle and may result in more toxic material shipped to poor parts of the world where people make pennies per hour, or placed into landfills.

"In my opinion that's a very troubling development in terms of product design. Similarly, recyclers are about to get hit with a whole wave of flat panel TVs with mercury lamps," says Kyle. "They are problematic and expensive to dismantle and remove the lamps. Mercury is incredibly toxic and has to be handled carefully. In many flat-panels, the mercury is in front and you have to take apart from the back to get those tiny, brittle lamps which easily break. Some recyclers simply toss the whole thing in the shredder exposing workers to mercury. If the panel can be reused as a whole, and that's a lot of what has happened, there's some money there. But is responsible recycling of this mercury laden product going to be our next CRT nightmare? I think it is," Kyle predicted.

Sarah Westervelt, e-stewardship policy director for the Basel Action Network (BAN) talked to American Recycler News about the current state of e-waste recycling. BAN e-Stewards and R2/SERI are the two primary

See ELECTRONICS, Page B7



## A Letter from the Editor

Readers,

Every two weeks in the city of Toledo, Ohio a truck comes by to pick up recycling. For some, two weeks is too long, and some of the materials that would have otherwise been recycled end up in the trash container, which is picked up weekly. Some weeks, though, people may have more garbage than recyclables, and so some of the non-recyclable items finds its way into the recycling bin.

Don't judge those that do this – many do. Garbage in recycling bins is actually turning into a real problem for single stream recyclers. This, along with other issues, is causing hardships for many recyclers.

Once profitable municipal recycling programs are now costing some local governments money instead of paying dividends. Sources estimate that over 2,000 municipalities are now paying to dispose of residents' recyclables. The slump in recycled materials sales has been part of the decision to shutter a number of Waste Management's large recycling facilities and if it doesn't reverse soon, may lead to additional closures.

Part of the problem has been the push to expand the access to and convenience of recycling. By providing households with ever larger bins with no sorting requirements, recyclers have invited contamination. The challenges associated with weeding out the rubbish from the good stuff has caused recyclers' costs to rise, and left them less able to compete with the price of virgin materials – especially in light of low oil prices.

Additionally, the makeup of the single-stream material mix is constantly evolving. As manufacturers work to use less and lighter materials, recyclers have to process more and more recyclables to squeeze out the same amount of sellable end product.

So the bad news is that the recycling market isn't great at the moment. The good news is that recycling isn't going away anytime soon. Between legislative initiatives, conscientious consumers, and ever scarcer virgin resources, recycling isn't done for just yet.

Once the current slump is over, I suspect that those who've survived will be poised for some pretty incredible growth.

Until next month,



Esther Fournier  
Editor & Publisher

# California electronics recycler charged with criminal trafficking

E-World's customers include Sony, Samsung, NEC, FedEx Kinko, Hitachi and Waste Management

According to court records from the Federal District Court in San Diego, Robert Erie, chief executive officer of E-World Recyclers, LLC of Vista, California was criminally indicted in December of 2014 by a Grand Jury for conspiracy, trafficking in counterfeit goods, falsifying records and lying to the government. He was subsequently arrested, released on bail and pled guilty to the charges. The case is still pending a final judgement.

The government indictment charges that in late 2009 and extending into 2010, E-World was sub-contracted by Cycle Chem, Inc. to destroy counterfeit knock-off, high end goods seized by the Customs and Border Protection Agency of the Department of Homeland Security. This sub-contract involved approximately 38 shipments of 1,888 pallets of designer watches, pens, and headphones. According to the government, instead of destroying these materials at the E-World recycling facility in Vista, California, Erie and a colleague hid the fake goods at a neighbor's house and in a private storage unit. Erie then tried to sell the counterfeit goods to others as authentic branded products. The indictment also claims that Erie falsified reports to the government asserting that the material

had been destroyed and then later created false documents implicating others as being the culpable parties once the scheme was discovered.

E-World Recyclers is one of the largest electronics recyclers in California, boasting an impressive collection of high profile customers on its website including: Sony, Samsung, NEC, View-Sonic, Waste Management, FedEx Kinko's and Hitachi. In 2013, their E-World Online division partnered with Costco to begin managing the reuse and recycling of the retailer's returned merchandise.

"The electronics recycling industry continues to be engulfed in scandal after scandal, which has involved unethical exportation, dumping, or abandonment of hazardous materials and exposure of private data," said Jim Puckett, executive director of the toxic waste trade watchdog organization, Basel Action Network (BAN). "And now we see yet another example of corporate malfeasance by one of the recycling industry's leading actors and this time we are talking about blatant criminal fraud. I think the lesson here is to use only electronics recyclers employing the most accountable certification programs and to back it up with your own due diligence."

The knock-off watches bore brands such as Chanel, Couch, Cartier, and Rolex. According to the indictment, commencing on January 12, 2010 Erie shipped four different shipments of fake watches to individuals listed as "H. S." and "D. D." in "Ohio". Previous court records show that Erie is already serving a five year probation for another federal case sentence in 2013 for being a felon found in illegal possession of firearms. The counterfeit trafficking charges brought against Erie are considered a felony under Title 18, United States Code, Section 2320 which, by itself, carries a maximum 10 years of prison time and/or a \$2 million fine.

Due to numerous examples of irresponsible electronics recycling, BAN, in 2010, created the e-Stewards® Certification program for ethical electronics recyclers that refuse to export hazardous e-waste to developing countries, ensure destruction of private data to protect customer information and privacy, and ensure that their customers are not defrauded. The e-Stewards program has a policy that removes criminal violators from the program and has also instituted unannounced spot checks to ensure high rates of accountability. E-World Recyclers have never been e-Stewards certified.

## Survey finds more U.S. residents plan to recycle batteries and electronics

A new national survey commissioned by Call2Recycle, Inc. reports that approximately one-third (34 percent) of U.S. respondents suffer from "green guilt," or the feeling that they could and should be doing more to help preserve the environment.

This finding shows an increase over a similar 2012 survey where 29 percent of respondents admitted to experiencing green guilt. While green guilt is on the rise overall, women (39 percent) and younger respondents ages 18 to 44 (45 percent) were even more likely to experience it.

Respondents are putting green guilt to good use with four out of 5 (81 percent) saying they are likely to recycle batteries, cellphones and other small electronics rather than throwing these items in the trash. The top reason reported for recycling these items is that it is the environmentally responsible choice (70 percent).

However, 7 in 10 (69 percent) of respondents identified barriers to

recycling batteries and electronics, especially:

- Not knowing how or where to recycle their old technology (33 percent);
- Not being able to find a collection event (22 percent); or
- Local electronics or retailers not offering programs (20 percent).

Call2Recycle, Inc. periodically tracks attitudes and behaviors around proper product disposal and environmental responsibility.

"While more work needs to be done to inspire consumers to take action, we can see progress in making recycling more available and accessible," said Carl Smith, chief executive officer and president of Call2Recycle, Inc. "Consumers increasingly want to make a difference in sustaining the environment and view recycling batteries and electronics as an option for taking action. We're pleased to see improvement in consumers knowing where to recycle batteries and related products since our last survey in 2012 when 44 percent of respondents did not

know how or where to recycle these items."

Three in 5 (or 60 percent) of survey respondents reported needing a way to dispose of: single-use batteries, cellphones, computers, TVs, rechargeable batteries, cordless phones, DVD players, audio equipment and digital cameras. About a third (34 percent) of respondents need to discard single-use batteries and nearly a quarter (23 percent) said cellphones.

Respondents split responsibility for proper product disposal in half between consumers (48 percent) and manufacturers (47 percent). This suggests a willingness to recycle battery-powered devices with the help of manufacturer-supported collection programs.

Since 1996, Call2Recycle has diverted more than 100 million pounds (45 million kilograms) of batteries and cellphones from the solid waste stream and established more than 34,000 collection sites throughout the U.S. and Canada.



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## Sunnking Inc. acquires Coast 2 Coast Electronics Recycling

Brockport, New York based Sunnking Incorporated has recently acquired Coast 2 Coast Electronics Recyclers of Erie Boulevard West in Syracuse, New York. Sunnking has been a leader in the electronics recycling industry since the company's founding in 2000. R2 and Rios Certified, the EPA Quality Award winning company of 2013 now has a brick and mortar presence in the City of Syracuse to better serve the Central New York market and beyond.

Coast 2 Coast has served the Syracuse community for many years providing pick up, data destruction and recycling of electronics.

Sunnking is ready to build on the solid foundation Coast 2 Coast has established in the Syracuse market and beyond.

## ISRI testifies in support of recyclers' ability to unlock mobile devices

The Institute of Scrap Recycling Industries (ISRI), testified before the U.S. Copyright Office, a department of the Library of Congress, in support of exempting recyclers who engage in bulk "unlocking" of mobile phones from liability. The testimony was included as part of hearings concerning exemptions to the anticircumvention provisions of the Digital Millennium Copyright Act (DMCA).

"Recyclers, such as ISRI members, need to be able to unlock in bulk the phones they legally obtain," said Eric Harris, ISRI's associate counsel, and director of governmental and international affairs. "We need a clear exemption to Section 1201 that removes concerns about potential DMCA liability, the risk of which is substantial under the current law. Our proposed exemption was very carefully drafted to avoid

exempting traffickers from liability under the DMCA while, at the same time, permitting legitimate recyclers who unlock and sell used phones to consumers who wish to purchase them."

Current copyright law makes the U.S. the only country where recyclers do not have the ability to unlock devices, standing in the way of advances in the reuse of technological devices and new innovations and competitive uses. The exemption, proposed by ISRI, would allow mobile phones bulk "unlocked" by recyclers to be used by consumers on other wireless carriers' networks. ISRI's exemption would specifically allow both consumers and recyclers to lawfully unlock used devices, including bulk unlocking, increasing the public's access to used devices on the carrier of their choice and facilitating competition among wireless carriers.

"Whatever phone unlocking exemption is granted, it must include explicit language that permits recyclers to bulk unlock for the benefit of consumers and competition," Harris testified. "We believe our proposed language effectively does that while clearly excluding illegal phone trafficking."

ISRI was represented by certified law students from Stanford Law School's Juelsgaard Intellectual Property and Innovation Clinic. Brian Weissenberg (Stanford JD '16) and Donna Long (Stanford JD '16) testified alongside Harris, arguing that unlocking a mobile device for use on another carrier is not an issue that implicates copyright law or DMCA protection.

Harris' testimony was in line with the ISRI Unlocking Technological Devices Policy, approved by ISRI's board of directors.

## EPA report shows advancements on e-recycling

The U.S. Environmental Protection Agency (EPA) released the Advancing Sustainable Materials Management (SMM) Facts and Figures report showing progress in consumer electronics recycling in the U.S. Consumer electronics recycling went up from 30.6 percent in 2012 to 40.4 percent in 2013, the same year EPA launched the Sustainable Materials Management (SMM) Electronics Challenge to promote responsible donation and recycling of used electronics.

Through EPA's Sustainable Materials Management program, the agency seeks the most productive and sustainable use of materials across their life cycle, minimizing the amounts of materials involved and all associated environmental impacts.

"For the first time, the leaders of the G7 have officially recognized the importance of the link between materials recovery and the global economy, and established the G7 Alliance on Resource Efficiency," said Mathy Stanislaus, assistant administrator for EPA's Office of Solid Waste and Emergency Response. "Building on the progress on sustainable materials management, EPA is engaging the business, government and NGO sec-

tors to leverage this new report and G7 Declaration to identify and act on opportunities for resource efficiency.

SMM is a systemic approach to using and reusing materials more productively over their entire lifecycles in order to identify opportunities to reduce environmental impacts, conserve resources, and reduce costs. EPA is advancing sustainable materials management by convening dialogues with key SMM stakeholders, providing sound science and information to the public, and establishing challenges to specific sectors to achieve shared goals.

In the Annex to the G7 Leaders' Declaration, it's noted that establishing a G7 Alliance on Resource Efficiency will provide a forum to exchange, promote best practices and foster innovation together with business and other stakeholders, including from the public sector, research institutions, academia, consumers and civil society, on a voluntary basis. Unsustainable consumption of natural resources and environmental degradation translates into increasing business risks through higher material costs, as well as supply uncertainties and disruptions. Resource efficiency offers opportunities to reduce

the burden on the environment while strengthening the sustainability, competitiveness and growth of the economy. The G7 Alliance on Resource Efficiency aims to promote an exchange of concepts on how to address the challenges of resource efficiency, to share best practices and experience, and to create information networks.

For every million cell phones recycled, 35 thousand pounds of copper, 772 pounds of silver, 75 pounds of gold and 33 pounds of palladium can be recovered.

Through EPA's SMM Electronics Challenge, equipment manufacturers and retailers are promoting responsible electronics recycling. Challenge participants send 100 percent of their used electronics to a recognized third-party certified recycler by the third year of their participation, and publicly report this information.

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



## EQUIPMENT SPOTLIGHT

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

To be listed in the appropriate spotlight, please call 877-777-0043.

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# EQUIPMENT SPOTLIGHT

## Conveyors

by MARY M. COX

maryc@americanrecycler.com

According to an IBISWorld report published in August of last year, the U.S. electronic goods market is \$8 billion in size, employs over 34,000 people and involves over 2,600 businesses. Further expansion is projected as regulations and volumes continue to rise, relative to the materials involved. The items collected and sorted in this industry include televisions, mobile telephones, tablets, computers and various similar items. Naturally, there are companies that manufacture equipment that can be used to process this specific waste stream. Conveyors are just one of the components that may be used in any given recycling operation for electronic refuse.

DeHart Recycling Equipment has manufactured a variety of conveyors for several decades for customers across the nation. "Until a few years ago, almost all of the conveyors manufactured by DeHart were designed for applications related to traditional recycling, however, in recent years there has been increased interest in electronics recycling among our customers. As a result, we provide customers with equipment systems to recover the valuable materials found in discarded elec-

tronics. These systems typically include a number of conveyors that interface with container dumpers, sort platforms, shredders, optical sorters, and magnetic separators. E-waste is comprised of many different materials, so in these applications it is key to have efficient separation of materials. DeHart designs and manufactures conveyors in-house to provide customers with a tailor-made solution to their electronics recycling needs," stated John Greider, Jr., regional sales manager.

As the popularity of electronics recycling continues to grow, Greider expects to see a correlating increase in demand for that type of recycling equipment, particularly shredders and conveyors. "We have already seen an increase in the number of inquiries from those starting an electronics recycling operation and certainly the volume of e-waste seems to be increasing as well. The process of separating and recovering the variety of materials found in electronics tends to necessitate more conveyors than you might need to recycle OCC, UBC, etc. For a customer to efficiently recycle electronics the person needs an infeed conveyor to a shredder, followed by a discharge conveyor to bring the material to sort. A variety of conveyors can be used in the sorting process. For a manual sort line there is typically a variable speed conveyor on a platform, linked with several stations where sorters are located. For customers that use a mechanical sorting device, we can build a conveyor that allows the optical sorter/ballistic sorter/magnetic separator to perform at its best," Greider explained.

Hustler Conveyor Company designs, manufactures, and provides complete solutions for sorting and separating electronic scrap. "As an industry leader for more than 50 years, we ensure that safety and reliability are always a top priority when it comes to engineering and constructing our equipment. We design all of our equipment to be as

dependable as possible to reduce down time, and maintenance cost," explained Cody Gonzales, sales associate.

"We offer a wide selection of heavy duty conveying and separation equipment for handling electronic scrap. Our conveying equipment includes steel belt, roller chain combo belt, and a variety of flat belt and oscillating conveyors. An assortment of separation equipment that includes cross belt magnets, drum magnets, eddy current separators, and sensor sorters is also



Hustler Conveyor Company

available. We can supply individual components or design and furnish a complete system. A typical system would include a steel/roller chain belt in-feed conveyor, which would feed the required size reduction equipment (shredder). The shredder discharges onto an oscillating conveyor that can be supplied with a screen section to remove any fine or small material. Material would then be conveyed to the separation equipment which would consist of magnetic separators, eddy current separators, and sensor sorters, by using various types of conveyors. We custom design all of our conveyors to any required width and length to meet the required system throughput," stated Gonzales.

He noted that efficient material recovery and obtaining a pure end product are some of the chief concerns when recycling electronics. Gonzales concluded, "We supply our customers with equipment that will provide optimum separation, and increased material recovery. This results in a higher quality of material. We're able to do this by engineering our conveyors and separating equipment so that our products include the flexibility to adjust and accommodate various material mixes."

According to General Operations Manager, Jeff Sayre, "Tuffman® incline conveyors are ideal for processing electronic waste, whether as add-ons to sorting systems or for feeding material into trommel screens or other sorting devices. The Tuffman-Eriez® metal separation system offers a complete solu-

See CONVEYORS, Page B5

### Manufacturer List

#### Bunting Magnetics

Don Suderman

800-835-2526

www.buntingmagnetics.com

#### DeHart Recycling Equipment

John Greider Jr.

314-292-8181

www.DehartBaler.com

#### Endura-veyor Inc.

Brian Zolnierak

800-356-1593

www.endura-veyor.com

#### General Kinematics Corp.

Dick Reeves

815-444-3519

www.gkreycling.com

#### Green Machine Sales LLC

John Green

877-448-4443

www.greenmachine.net

#### JVI Vibratory Equipment

Rob Bishop

832-467-3720

www.jvivibratoryequipment.com

#### Lewco, Inc.

Jason Fresch

419-625-4014

www.lewcoinc.com

#### Midwest Equipment Sales

Jim Ashmus

800-572-8735

www.midwestequipsale.com

#### Machinex Technologies Inc.

Chris Hawn

877-362-3281

www.machinextechnologies.com

#### PRAB, Inc.

Mike Hill

800-968-7722

www.prab.com

#### Remcon Equipment Inc.

Dan Lueck

509-244-9439

www.remconequipment.com

#### Smalis Conveyors Inc.

Doug Smalis

800-348-0765

www.usaconvey.com

Continued on Page B5



DeHart Recycling Equipment



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## Conveyors ■Continued from Page B4



Tuffman Sorting Systems

tion for e-waste sorting and separation. Complete with several Tuffman incline conveyors, the metal separation system effectively separates ferrous and nonferrous metals from waste." Tuffman is a division of Worldwide Recycling Equipment Sales.

Sayre said Tuffman conveyors are used in a variety of material recovery projects, including electronic waste. Their 32' heavy-duty incline conveyor is used for feeding material into a trommel screen or from the trommel screen to the sorting station. The 12' portable incline conveyor is a shorter, mobile conveyor that can be easily moved from location to location, making it convenient for smaller transporting jobs around a site. Powered by a 20 hp, 3-phase electric motor, the Tuffman 532ED extreme duty conveyor is the firm's largest, most durable conveyor. It is best-suited for transporting more taxing material, such as computer monitors, circuit boards, and other electronic waste.

"Tuffman Equipment is a proven leader in the waste processing and material recovery industries. We specialize in the manufacture of material recovery

### Manufacturer List, Cont.

**Smalis Conveyors Inc.**  
Doug Smalis  
800-348-0765  
www.usaconvey.com

**The CP Group**  
Ashley Davis  
619-477-3175  
www.thecpgrp.com

**Titan Conveyors**  
Dan Baumbach  
800-558-3616  
www.titanconveyors.com

**US Conveyor**  
Troy Graves  
877-255-5368  
www.usconveyor.net

**Worldwide Recycling Equipment Sales**  
Jeff Sayre  
660-263-7575  
www.tuffmanequipment.com

equipment, including sorting stations, trommel screens, crossbelt magnets and conveyors. We can also custom-design and manufacture to order," Sayer said

## Verizon partners to recycle

In 2010, Verizon set a goal to collect 2 million pounds – or 1,000 tons – of electronic waste in communities it serves by the end of 2015. That five year goal was achieved in May, eight months ahead of schedule, during Verizon's e-waste recycling rally in Wilmington, as area residents, businesses and Verizon employees safely disposed of tens of thousands of pounds of unwanted computer hardware, TVs and small appliances.

The 2 million pounds collected for recycling over the past 5 years is equal to the weight of 500 average cars, or roughly 50,000 cathode ray tube computer screens.

Verizon immediately set a new e-waste goal: recycling another 2 million pounds of e-waste by 2020.

Inappropriate e-waste disposal in landfills can cause the electronic devices' toxic materials – such as lead, arsenic, beryllium and mercury – to leach into the environment, posing a potential threat to the ecosystem. Thanks to the Wilmington community's participation, Verizon has collected and kept from entering landfills roughly 200,000 pounds of electronic

waste in the area to date – equivalent to the weight of more than 9,000 desktop computers.

"Volunteers from our 18,000-member employee Verizon Green Team worked with Wilmington community members on a milestone achievement today," said James Gowen, chief sustainability officer for Verizon. "The recycling rally helped reach Verizon's goal of collecting and keeping 2 million pounds of e-waste out of landfills – months ahead of schedule. We've already set our next 5 year goal to collect another 2 million pounds of electronic waste by 2020."

Verizon adheres to a zero-landfill objective for e-waste. All materials it collects are reused or recycled so they do not end up in a landfill. The recycling rallies also benefit Verizon's HopeLine program, which diverts working mobile phones from landfills and donates them to domestic violence prevention and support organizations. Over 9 million wireless phones have been collected through the program since 2001.

## Nave receives responsible recycling certification

Nave Communications, a subsidiary of ADDvantage Technologies Group, Inc., has received Responsible Recycling (R2) certification, the highest industry standard for environmental responsibility and safety. Nave Communications' recycling program was recommended for this certification after successful completion of a rigorous third-party audit of its operational environmental performance.

"The implementation of R2 at Nave Communications has been a significant step in our continuous improvement of our processes at our facility," said Doug Nave, president of Nave Communications. "In addition to our other certifications of TL9000, ISO 14001, and OHSAS 18001, our customers can be assured that we will

responsibly manage their materials all the way to final disposition."

R2 certification promotes the safe and effective recovery and reuse of electronic equipment and materials, minimizes environmental and public health risks, guards downstream control of the recycling chain, and demonstrates compliance with domestic and international laws. R2 is a U.S. Environmental Protection Agency-recognized accreditation standard that helps to ensure electronics recyclers remain accountable for their processes while also helping to protect supply chain employees, and others, who are exposed to e-waste.

The R2 audit involves a 7 step process that evaluates over 50 areas of operational performance.



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The body is constructed of heavy structural steel. Hardened and ground cutter disks and spacers ride on two heavy duty parallel hex shafts.



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For processing abrasive materials, the granulators can be equipped with an optional wear protection packaging. The two piece split design allows for optimum access to all components simplifying cleaning and routine maintenance.



**Masaba, Inc.**  
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www.masabainc.com

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The Masaba Portable C125 Plant allows for efficient transportation. This unit features a Grizzly hopper module that hydraulically lifts off the wide flange beam chassis for travel. Hydraulic legs allow this hopper module to be transported on a low boy without the use of a crane.

The hopper module is built from .75" AR steel and comes complete with hydraulic folding wings to maximize feed capacity. This unit can be customized to fit specific operational needs.

## China Quality Certification Centre first to join expanded EPEAT PRE network

Following a multi-year pilot program with five global organizations, the Green Electronics Council expanded the network of EPEAT-approved PREs by qualifying the China Quality Certification Centre (CQC). CQC is the largest professional certification body in China. As a PRE (Product Registration Entity), CQC will work with manufacturers to identify whether their products meet the environmental requirements for inclusion in EPEAT, the definitive global rating system for green electronics.

"I am pleased to have CQC lead this expansion of the PRE network," said Robert Frisbee, Green Electronics Council chief executive officer. "Their certification knowledge and insight into Chinese manufacturers, coupled with a growing proficiency in sustainability issues, keeps the bar high as EPEAT continues gaining awareness in the world's largest electronics markets."

The EPEAT system evaluates electronics on a lifecycle basis, addressing their design for recycling, elimination of toxic substances, use of recycled and recyclable materials, longevity, energy efficiency and packaging, among other attributes. More than 50 manufacturers have registered products with EPEAT worldwide. The organizations in the PRE network are instrumental during the

registration and verification processes to ensure products' environmental attributes are accurately stated.

Though the EPEAT system debuted in 2006, the PRE pilot program did not launch until May 2012 as demand for registration and compliance services increased globally. Once registered in EPEAT, products are strictly monitored through verification rounds to ensure the accuracy and integrity of the registry.

Over their lifetime, EPEAT-registered electronics purchased globally since 2006 will deliver environmental benefits compared to products not meeting EPEAT criteria. To date, purchasers choosing EPEAT-registered electronics over products that don't meet the system's criteria have eliminated enough mercury to fill 4.6 million fever thermometers, avoided more than 528,000 metric tons of hazardous waste, and reduced solid waste by the equivalent of 248,000 U.S. households' annual waste.

China Quality Certification Centre (CQC) is a professional certification body under China Certification & Inspection Group (CCIC) approved by State General Administration for Quality Supervision and Inspection and Quarantine and Certification and Accreditation Administration of the People's Republic of China.

## Gazelle launches platform for schools and nonprofits to raise money through e-recycling

Gazelle, Inc., a buyer and reseller of pre-owned consumer electronics, launched Gazelle Storefronts to help schools, parent-teacher associations (PTAs) and other nonprofit organizations raise money through Gazelle's electronics device trade-in program. The fundraising platform allows organizations to set up a customized storefront where they can earn a 15 percent commission for their cause on every trade-in of a smartphone, tablet, MacBook or other qualifying device. To create a customized storefront and start fundraising, visit Gazelle Storefronts.

To kick-off the fundraising program, Gazelle has partnered with Cell Phones for Soldiers, the official Storefront launch partner. The Cell Phones for Soldiers Storefront will help provide

cost-free communications services to active-duty military members and veterans so every member of the military can make unforgettable calls and connections with their families.

Interested organizations can get started in three easy steps:

1. Register to become a Gazelle Storefronts partner.
2. Personalize your page with a pre-designed, co-branded layout.
3. Promote through your interested networks.

Gazelle Storefronts is part of Gazelle for Good, Gazelle, Inc.'s corporate responsibility program. Gazelle for Good aims to give back to the community through donations and volunteerism.

## Over 20,000 lbs. of electronics recycled in San Marcos

In April, the San Marcos community shed serious pounds at RecycleNow, an electronics recycling event hosted by Texas State University and R3 Recycling.

During the event, Marcos Garza, the chief executive officer of R3 Recycling estimated that over 7,000 lbs. of elec-

tronic waste was brought to the event by the community. After a month of sorting and calculating, the final figures are accounted for.

- CRT & TVs: 11,538 lbs.
- Desktops: 3,113 lbs.
- Laptops: 520 lbs.
- Miscellaneous: 5,457 lbs.



# DEA Western Laboratory wins Federal Green Challenge award for electronics recycling

The U.S. Environmental Protection Agency (EPA) regional administrator Jared Blumenfeld presented the Federal Green Challenge award to the Drug Enforcement Administration (DEA) Western Laboratory for increasing its electronics recycling more than any other federal agency in 2014. Blumenfeld presented the national award at the DEA National Lab directors Conference.

*The effort challenges the EPA and other federal agencies to lead by example.*

In 2014, the Western Lab recycled and donated more than 8,200 pounds of electronics – resulting in a nearly 10 percent increase over its baseline from the previous year, an increase greater than any

of the over 400 Federal Green Challenge participants nationwide.

This was accomplished using a certified electronics recycler to collect and recycle electronic equipment with no useful life and donating operational lab instruments to colleges and universities. The lab also held e-waste collection events and recycling education activities to increase awareness among staff members.

The Federal Green Challenge is a national effort under EPA's Sustainable Materials Management Program encouraging federal offices to reduce their environmental impact. Agencies strive for annual improvements in waste, electronics, purchasing, water, energy and transportation. In 2014, agencies diverted over 390,000 tons of waste from landfills and saved nearly 80 million gallons of water.

## Electronics

■Continued from Page B1

organizations that run e-waste recycler certification programs.

"It's difficult to come up with accurate numbers for the recycling rate," Westervelt explained. "Our sense is that recycling has increased and I think there are a number of reasons why that is likely in North America. I would definitely say that the 25 state laws are a primary cause for increases as governments and manufacturers take on the responsibility to recycle and educate consumers about collection and convenient recycling opportunities. I think the buy-back programs have helped, too. Programs that buy used cell phones and laptops (smaller devices) from consumers and refurbish and resell some of the units are good. But these programs have also led to false expectations on the part of many consumers and government agencies that they should expect to be paid for all of their e-waste. But much e-waste is of low or negative value, such as printers/copiers or CRT devices.

"We created the e-Stewards certification program to identify globally responsible e-recyclers and we've also created a parallel program, the e-Stewards Enterprise program, which identifies corporate and government e-waste generators that are willing to use certified e-Stewart recyclers. Staples is a unique e-Stewards Enterprise partner because they have agreed to use e-Stewards for the e-waste they collect in their stores around the country. Some other major electronics retailers have also become involved in collection. Another program, outside of state laws, is the Green Sports Alliance, which provides collection opportunities at major sports events. I expect to see that increasing. Through press coverage, documentary films and educational programs, people are also becoming more aware of the e-waste problem and how to properly recycle. People are realizing it's not just a solid waste problem, but a hazardous waste problem."

Westervelt warned that while U.S. e-recycling may be increasing, the recycling industry is coming under huge economic stress.

"In the past year recyclers have been getting crushed financially for a number of reasons," said Westervelt. "Except for California, the state take-back laws are putting manufacturers in

the driver's seat for paying for collection and recycling. And manufacturers have not increased retail prices to cover the end-of-life costs. As a result, they are not paying recyclers much of anything. In the Seattle area, I know that recyclers used to charge \$.29 or \$.30 per pound to manage this hazardous waste. Then the manufacturers began playing recyclers against each another to get the lowest price. Last I checked, it was down to something like \$.05 per pound. There's a huge race to the bottom with manufacturers not paying adequately to manage this hazardous waste stream. We're seeing major problems like warehouses full of CRT glass being abandoned. And there are bankruptcies, mergers and acquisitions across the industry. Some of this is par for the course with a relatively new industry, but the past year or so has squeezed the industry from all sides. We have this combination of manufacturers not paying adequately, and the costs to e-cyclers to be independently certified. Conscientious individuals, corporations, organizations and OEMs expect e-cyclers to be certified, but at the same time, are now expecting free services. The third factor affecting recyclers is the fact that metals markets have gone down, reducing the revenue generated from the recovered materials such as copper. E-cyclers are being pressed on all sides.

"So we have a growing awareness around the need for recycling, but simultaneously a refusal by society to pay recyclers for managing our hazardous waste in a way that protects workers and protects developing countries. We expect to pay for services like sewage treatment, yet for some reason manufacturers and others believe that recyclers should take this hazardous waste stream for nothing, or for pennies. It's a real crisis, and a real shakedown happening in the e-recycling industry. We need to pay companies to manage it responsibly. Otherwise, there is huge downward pressure on them to export the lead, cadmium, mercury, batteries, CRT glass, and so on to Chinese and African brokers, resulting in long term damage to global human health and the environment," said Westervelt.

Patty Osterberg, director of education and outreach for Sustainable Electronics Recycling International (SERI) works to engage and educate stakeholders on electronics recycling issues. SERI is the housing body for the R2 standard for responsible e-cycling.

"Our growing reliance on electronics highlights the need to take a long-term sustainable approach towards electronics stewardship, both at work and at home," said Osterberg. "The centerpiece of any sustainable solution must be extending the life of reusable electronic devices and components. Many new products that we see on store shelves actually contain electronic components that have been recovered from entirely different electronic devices. Recycling programs that maximize reuse potential are producing the most environmentally beneficial outcomes."

With the prevalence of electronics in mind, the federal government is committed to being a responsible consumer of electronics and a leader in electronics stewardship.

Osterberg reminded us that under the 2011 National Strategy for Electronics Stewardship (NSES), the government established four essential goals that are well worth pursuing:

1. Build incentives for design of greener electronics, and enhance science, research and technology development in the U.S.

2. Ensure that the federal government leads by example.

3. Increase safe and effective management and handling of used electronics in the U.S. and,

4. Reduce harm from U.S. exports of e-waste and improve safe handling of used electronics in developing countries.

"As efforts under the NSES continue to progress, the benefits will continue to extend beyond the federal community, including a stronger recycling industry; improved recycling practices that protect workers and the environment; more opportunities for reuse; increased access to safe recycling options, and greener electronics for users," said Osterberg.

Another essential goal should be added: someone should be identified to step up and pay fairly for responsible e-waste recycling because the hazard will always be there.

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