



# American Recycler

NewsVoice of Salvage, Waste and Recycling

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## FOCUS: ELECTRONICS

### E-Scrap export control proposal splits recyclers



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# Automotive recyclers embrace self-service salvage yards

by MARK HENRICKS

mhenricks@americanrecycler.com

It takes a lot for an industry with more than 8,000 businesses and \$22 billion in annual sales to change direction. That's what's happening now in automotive recycling, where self-serve salvage yards that permit customers to remove their own parts from scrapped vehicles are beginning to supplant traditional full-service operations.

Thus far, there are only about 200 pure self-service yards, estimated Dimitri Gerontis, principal at S3 Software Solutions, a Salt Lake City provider of software for self-service auto salvage operators. "But there are probably upwards of 400 to 500 of what would be considered a hybrid yard, bordering between self-service and full-service," Gerontis said. "And everyone's looking in that direction."

Gerontis thinks the number of self-service yards is increasing by 20 percent to 25 percent per year. About half of those are new salvage yards opened up specifically to be self-service. The balance are full-service yards converting to self-service operation.

Self-service offers salvage yards a number of appealing features compared to the usual full-service yard, where yard workers remove parts for customers. For Chris Mantas, CEO of Tear A Part, a self-service yard in Salt Lake City, the big draw was self-service's ability to increase the number of customers visiting a salvage yard. "We saw the advantages of more walk-in traffic compared to full service," he said. "It intrigued us so much we got into it."

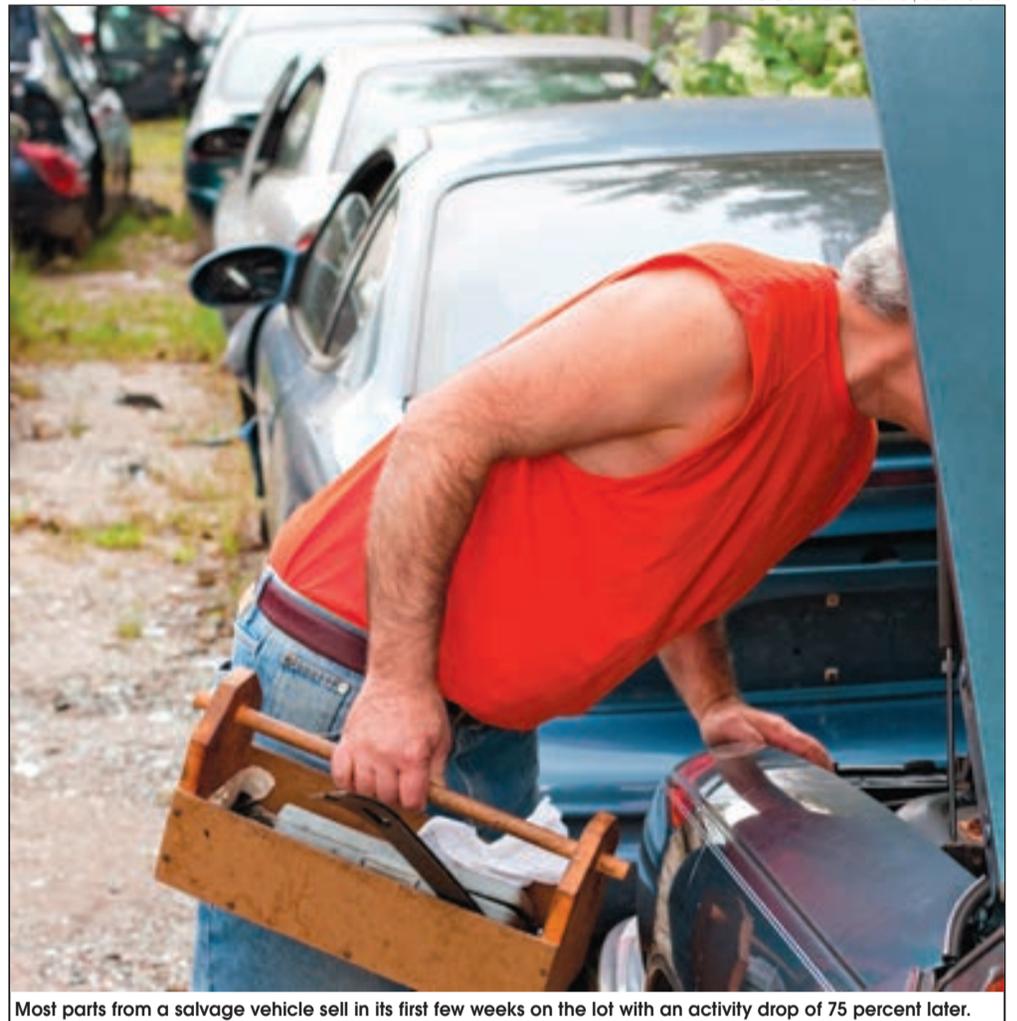


PHOTO BY ARENACREATIVE | DREAMSTIME

Most parts from a salvage vehicle sell in its first few weeks on the lot with an activity drop of 75 percent later.

In addition to expanding the market for a salvage yard's offerings, self service provides the ability to embrace a significantly different business model. Full-service yards typically buy fewer vehicles and keep them longer than self-service facilities, Gerontis

said. A full-service salvage operator will attempt to sell all or most of the valuable parts on a vehicle before taking the step of shredding the hulk and selling it to a processor to recycle the commodities.

See SELF SERVICE, Page 4

## NDA issues environmental project awards

PHOTO COURTESY OF THE NATIONAL DEMOLITION ASSOCIATION

The National Demolition Association (NDA) presented the 2nd annual Environmental Excellence Awards to four companies which have performed demolition projects that demonstrate significant environmental conservation and community improvement, while bringing about a discernible positive impact on the quality of life in the U.S. and Canada.

"The Environmental Excellence Awards recognize NDA member companies which are true leaders in environmental stewardship," said Michael R. Taylor, CAE, executive director of the NDA. "Environmental stewardship is one of the demolition industry's primary mis-



Envirocon's Woodside Dam project in South Carolina allowed a river to flow freely for the first time in 100 years.

sions and these winning projects help illustrate truly dramatic efforts our members have made to make this a reality."

The winning projects, which were honored at the

National Demolition Association Annual Convention in Las Vegas in March, are:

Project: Prichard Stadium Sports Complex Demolition, Fort Hood, Texas

NDA Member: Charter Environmental, Boston, Massachusetts

Project: Demolition and Remediation of Newton North High School, Newton, Massachusetts  
 NDA Member: Costello Dismantling Co., Inc., Wareham, Massachusetts  
 Project: Woodside Dam Demolition Project, South Carolina  
 NDA Member: Envirocon, Inc., Portland, Oregon  
 Project: Sappi Fine Paper Property Project, Muskegon, Michigan  
 NDA Member: Melching, Inc., Nunica, Michigan

For additional details of these projects, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

# Artificial turf recycling process developed

The problem was becoming monumental. Artificial turf fields installed 8 to 12 years ago are in desperate need of replacement. But what to do with the old turf? Landfills have become expensive options, and in some states with tough sustainability laws, not an option at all. With an estimated 31,000 U.S. fields on the line for replacement in the next 25 years, each with 500,000 lbs. or more of material, this dilemma loomed large until now.

Turf Reclamation Services (TRS), has developed a solution for artificial turf removal and recycling that has the entire industry breathing easier. It's the combination of new equipment that slices and rolls the turf carpet and a new recycling process that extracts the infill and recycles the carpet that makes field replacement an easier process for architects, contractors and organizations who own the fields.

Leveraging over a decade of front line artificial turf knowledge, TRS developed specialized equipment that removes the field with minimal disruption to the base. The equipment includes a self-propelled drive unit, called the Wrangler™ and two accessories for reclaiming the field. The Viper™ attachment slices the turf into manageable 45" ribbons the entire width of the field. Each ribbon is then tightly rolled using a second attachment called the SideWinder™. These rolls can then be easily loaded onto trucks for transport. A separate machine, the Rattlesnake™ is in final development to remove and super-sack the material directly on site. The prototype Rattlesnake has proven this concept



on several fields and the commercial unit is expected in late 2012.

Depending on the customer's needs, a number of things can happen to the turf and infill once removed from the site. The turf can be repurposed into a secondary market or be recycled into new products such as synthetic turf infill. The rubber and sand infill can be reused on the project or further cleaned, sieved and separated for use on future synthetic turf projects. The entire recycling process is managed by TRS which can supply a Certified

Chain of Custody to ensure the field elements have been properly handled and processed.

"Architects love the idea of being able to recycle the old turf and remove it in a way that keeps the base intact. It eliminates two major hurdles in the client's decision to install a new field," said Mark Heinlein, president of TRS. TRS crews are providing removal services to turf contractors and have already completed projects throughout the Midwest, South and East Coast.

# NSWMA applauds NYC efforts to break up theft ring

The New York City Business Integrity Commission (BIC) announced three arrests of the perpetrators of a large-scale recycling theft operation responsible for stealing tens of thousands of dollars' worth of cardboard from large New Jersey retail sites. Law enforcement officials found thieves orchestrating a cardboard theft ring focusing on Wal-Mart's and Sam's Clubs in New Jersey. With the value of cardboard hovering around \$100 per ton, the volume of cardboard generated by these stores made them an attractive target for these thieves. The National Solid Wastes Management Association (NSWMA), the association that represents the private-sector solid waste and recycling services industry, applauds these arrests.

Thomas N. Toscano, chair of the NSWMA's New York City chapter and the president of Mr. T Carting Corp. in Glendale, New York, said that NSWMA members in New York City are losing 8 to 10 million dollars per year due to cardboard theft.

The BIC is both a law enforcement and regulatory agency charged with the oversight of the private carting industry, the businesses operating in New York City's public wholesale markets, and the shipboard gambling industry.

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# Gershow featured in television show "American Gypsies"

Gershow Recycling, located in Brooklyn, New York, were featured in an episode of National Geographic Channel's "American Gypsies" which aired August 14.



Jonathan Abrams (third from right), manager of Gershow Recycling, poses with the Johns family from National Geographic Channel's "American Gypsies" and the program's producers at Gershow's Brooklyn facility.

In the episode "Love For Sale," Bobby was looking for new business opportunities outside of the traditional family-run psychic healing shops. He noticed that his son-in-law John was doing very well in the scrapping business, so he decided to learn more from John. They collect some scrap metal and took it to Gershow's facility in Brooklyn to get money for it.

They met Jonathan Abrams, manager of Gershow Recycling, who weighed the brass scrap for them. Weighing the metal at 248 lbs. with the current market value at \$2 per lb., they earned \$496. When John saw Bobby holding that money, he could see that Bobby would enjoy being in the scrapping business.

# Liberty Tire Recycling donates playground safety surfacing

Liberty Tire Recycling will donate its Pinnacle rubber mulch and Smarte playground surface system to KaBOOM!, a nonprofit organization dedicated to saving play for America's children.

The donation, which includes Pinnacle rubber mulch for landscaping and Smarte playground safety surfacing, will be used to help build a new playground at The Children's Inn at the National Institute of Health (NIH).

The Children's Inn at NIH is a non-profit residence where families stay free while their children participate in biomedical research.

Pinnacle Rubber Mulch is a natural-looking mulch alternative. As a safety surface, a 6" layer of Pinnacle Rubber Mulch will cushion a child's fall from as high as 16' using half of the material compared to wood mulch.

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# SLCC wins 2012 recycling award

Salt Lake Community College (SLCC) has received the first-ever Utah Most Valuable Recycling Program award from the Recycling Coalition of Utah. Like the Stanley Cup, the Utah MVP award is a traveling trophy that is issued yearly. Unlike the Stanley Cup, this award is made from recycled materials.

SLCC received the award for its participation in the international RecycleMania campaign.

RecycleMania is a national competition and benchmarking tool for college and university recycling programs to promote waste reduction activities to their

campus communities. To participate, colleges are ranked on the amount of recycling and trash collected each week over an eight-week period and are ranked according to per-capita recycling, recycling rate as a percentage of total waste and on generating the least amount of waste.

The college participates in RecycleMania because the program motivates students and staff to increase recycling efforts and reduce waste generation, to generate attention and support for campus recycling programs, and allows the institution to improve its recycling efforts

by measuring and benchmarking recycling activity.

The college currently recycles at all 13 locations. Over 1,200 recycling bins are used every day at SLCC campuses. The college has even expanded its recycling efforts to Cate Field and the Bruin Softball field – where coaches for the top-ranked programs are looking into discovering novel ways to recycle intercollegiate eligibility for their respective athletes.

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

## Self Service

Continued from Page 1

Self-service yards, by comparison, buy more cars, sell fewer parts off each and are quicker to move vehicles on to the next stage, shredding. While a typical full-service yard might handle 100 cars a month, a typical self-service yard might do 800 per month, Gerontis said. “In this business, it’s all about volume,” he said. The rapid turnover of inventory creates significant opportunities for self-service operators.

One such advantage is apparent at the auctions where operators purchase cars for inventory. While a full-service operator, who intends to keep a car until a large percentage of its parts have been sold, might want and buy only one particular year and model of a vehicle, a self-service operator might buy dozens of the same type of car, often paying less per vehicle. Then the self-service operator will keep the vehicles only for a few weeks or months, selling only a portion of the valuable parts, before sending them off to the shredder.

Because the self-service operator is buying the vehicle at a price justified by the commodity market, he can afford to significantly undercut the full-service yard on in-demand, high-cost items like engines.

Also, income from shredding rises with the number of vehicles sold for shredding. This income has increased in recent years as the value of the steel and other commodities has risen. Today, the sales revenue from the sale of cars for shredding gives self-service yards an important revenue source in addition to retail parts sales. “The diverse revenue stream is what makes the self-service model so attractive to people,” Gerontis said. “That’s why it’s trending the way it is.”

The self-service business model is difficult for many veteran full-service salvage yard operators to appreciate, Gerontis continued. Having taught themselves to hang on to car bodies that still contain high-value parts, they are reluctant to send cars to the shredder after only a short time on the lot. Yet studies show most parts from a salvage vehicle sell in its first few weeks on the lot. “After that, activity drops off 75

percent,” he said. “You’re better off replacing that vehicle with another one.”

Shredder operators are attracted to self-service yards as an adjunct to their existing operations. Some shredders are looking at self-service yards, with their high monthly volume, as a good source for car bodies to feed their shredders. By opening their own self-service yards, shredding companies are cutting out the middleman and assuring themselves of a steady, low-cost supply of vehicles.

Dealing with customers is also very different, and has important implications for yard layout, staffing and customer policies. Yards have to be laid out with plenty of space for customers to pass through, and the vehicles have to be accessible to allow customers to remove parts themselves. Individual vehicles have to be set up so that they can’t fall on a customer, for instance.

Safety is a critical component of a self-service facility. Customers are usually barred from bringing certain sorts of tools, usually including jacks and air-powered tools, into the yard. Yards also have to obtain adequate liability insurance, which can be costly and require some searching as not all companies offer the coverage.

However, overall, costs can be lower, as self-service yards require fewer and less-experienced employees. Along with added revenues from sending more cars to the shredder, this can make self-service yards more financially appealing than their full-service cousins. “It’s a lot easier to make a go of it with a self-service yard,” Gerontis said. “There is more margin for error because of the commodity income.”



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# NERC board members set

With the new fiscal year at North East Recycling Council (NERC) comes a new leadership team. The board of directors has elected the following board members as the executive committee for fiscal year 2013:

Sarah Kite returns as president of the board. Sarah is the director of Recycling Services for the Rhode Island Resource Recovery Corporation. A certified recycling systems manager, she has more than 12 years of experience in the solid waste and recycling industry.

Kite worked at the grassroots level as an advocate for increasing recycling, reducing waste and composting, and as a municipal recycling coordinator with responsibility for solid waste contract management and resident education and programming. In her current position, Kite manages the statewide municipal recycling program, the corporation's recycling education program, legislative and public relations, and also has general oversight of the Materials Recycling Facility (MRF), one of the largest MRFs in New England.

Robert Isner joins the executive committee as the vice president. Isner has been with the Connecticut Department of Energy and Environmental Protection (CT DEEP) for over 20 years, the past 14 years as the solid waste and hazardous waste program manager. His current responsibilities as director of waste engineering and enforcement division include management of enforcement, permitting and compliance assistance activities for the recycling, pesticide, solid waste and hazardous waste programs. Prior to joining CT DEEP, Isner worked for over eight years as a municipal land use planner for two municipalities in Connecticut. He holds a Bachelor of Science from UConn and a Master of Science from Central Connecticut State University.

He is currently on the board of directors for the:

- Connecticut Chapter of the Air & Waste Management Association,
- Northeast Recycling Council, and
- Connecticut Recyclers Coalition.

George MacDonald is continuing as the treasurer. MacDonald recently became the director of special projects within the office of commissioner at Maine's Department of Environmental Protection. MacDonald has been Maine's representative to the NERC board of directors for the past 14 years when he was the program manager for the Waste Management and Recycling Program within the Maine State Planning Office.

His experience with solid waste management issues spans over 30 years and includes employment in the private sector as well as the public sector, at local and state levels. When NERC was founded in 1987, MacDonald participated in NERC's early activities when he served as chair of the Maine's Recycling Advisory Council and continued as the state's representative when he became the director of the office of waste reduction and recycling within the Maine Department of Economic and Community Development.

In a non-elected position, Lynn Rubinstein, NERC's executive director, continues as the secretary.

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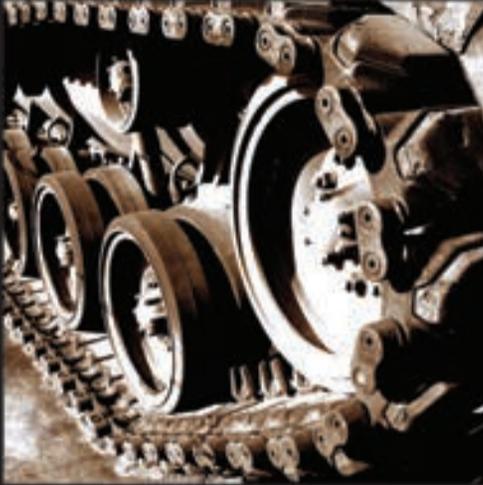
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# Communities rally for more recycling

Challenge will award \$100,000 to winners

Americans recycle only 1.5 lbs. of the more than 4 lbs. of waste they generate daily, adding unnecessary waste to landfills. In an effort to help slow this trend and further inspire waste reduction efforts, SC Johnson has partnered with Recyclebank to launch the SC Johnson Green Choices Recycling Challenge. The program encourages 50 communities, 1 in each state, to compete for the highest recycling participation rate during the 6 month challenge. The winning community will receive a \$100,000 grant from SC Johnson.

The SC Johnson Sustainable Behavior Change Program is a five year research project that will bring together academics, environmentalists and consumers in an effort to identify what drives behavior change around a number of sustainable actions. Overlaying consumer-action programs will test different message techniques across communities to understand what motivates that behavior change. The program's initial research will dovetail with the SC Johnson Green Choices Recycling Challenge.

While the challenge aims to increase consumers' recycling, it will also contribute to the company's goal of becoming landfill neutral by 2016. Through operational commitments as well as with the help of Recyclebank and communities across the country, the company will eliminate or divert more than 480 million lbs. of waste from the nation's landfills, which is equivalent to more than its U.S. waste footprint. The company defines its waste footprint as all its U.S. manufacturing, office and consumer packaging waste and shipping materials.

The 50 new communities involved in the SC Johnson Green Choices Challenge will join more than 300 communities across the U.S. and the U.K. that have implemented Recyclebank programs to help increase recycling rates through incentives and reward residents with deals on everyday household and grocery items. In addition to significant environmental benefits, increased recycling also has a positive impact on municipal finances through disposal cost savings and revenues from the sale of recyclables.



**"We're buying our 8th piece of Al-jon equipment to help us keep up with growth."**

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"Customer demand led to our purchase of a second 580. Even with the efficiency of one machine, we couldn't keep up with requests from new customers. When they discovered how efficient we were, they kept giving us more business. That's why we're buying a third 580," says Don.

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

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

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# Charity golf outing raises money for children with cancer

The 18th Annual City Carton Recycling/Ockenfels Family Charity Golf Outing was held recently near Iowa City, Iowa. The one day event raised over \$129,000 this year for the American Cancer Society's Scholarship Program and the "Children's Cancer Connection," a non-profit organization providing support services and programs for children with cancer and their families.

One hundred percent of the outing's proceeds are donated, thanks to the Ockenfels Family Foundation paying all outing expenses. The outing is held in memory of Deborah Ockenfels, daughter of City Carton Recycling founders Mort and Marcy. Deborah died of cancer at the age of 17.

Over 170 golfers, from across the United States and Canada teed off at the outing. Over 45 more friends, family and City Carton Recycling team members assisted with the event.

Money was raised for the outing in a variety of ways. A large portion is pledged in activity and hole sponsorships prior to the outing.

Premier sponsors joining City Carton Recycling and the Ockenfels Family Foundation in the event this year include Core Vens Insurance, Hills Bank & Trust, International Paper, IPS Balers, Deb & John Ockenfels, Kathy & Andy Ockenfels, L & P Wire Tie Systems, Machinex, Midwest Shredding Service, Point Builders LLC, Pralumex, Quincy



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One million dollars has now been raised since the initial family charity golf outing held 18 years ago.

## Non-recycled waste is key to America's energy strategy

The American Chemistry Council (ACC) and University of Texas at Austin released a new study reaffirming the value of everyday waste as a clean, abundant, affordable source of domestic energy. The study, completed by Michael Webber,

Ph.D, and his team, demonstrated that fuel engineered from non-recycled plastics and other materials could power a cement kiln located in Texas.

Webber's research reaffirms the benefits of energy from waste. In the case of the fuel developed and used in the study, the energy content surpassed that of some forms of coal.

Webber's team found that if only 5 percent of unusable materials from recycling facilities were diverted from landfills to energy recovery, it would generate enough energy to power approximately 700,000 American homes annually.

## Real Recycling for Massachusetts warns consumers about taxes

Real Recycling for Massachusetts – an organization of citizens, businesses, trade organizations and unions – warned Bay State consumers about a hidden tax that was attached to legislation designed to generate economic development and job creation.

The Massachusetts Senate voted to slip in the hidden tax – an expansion of the bottle bill that will add five cents to a variety of beverages such as iced tea, water, sports drinks and juices – to their version of the "jobs bill" slated to pass by the end of this legislative session. The move comes just a little over a month after the Senate voted to reject

the same proposal. Last month the Joint Committee on Telecommunications, Utilities and Energy also rejected bottle bill expansion, which is projected to have virtually no positive impact on recycling rates.

"It's unbelievable that with so many Massachusetts families still struggling to make ends meet, the Senate would tack on a job-killing amendment that is nothing more than another tax," said Chris Flynn, president of the Massachusetts Food Association and a member of Real Recycling for Massachusetts. "Nothing has changed in a month. Bottle bill expansion is not only bad for consumers and businesses, but it is bad for jobs and has absolutely no place in a bill aimed at creating them."

The proceeds from bottle bill expansion – which is estimated to cost Massachusetts families \$22 million per year in bottle deposits – is not slated for recycling efforts, but instead will go directly to the state's general fund. In addition, it will raise the price of groceries by as much as \$116 million per year, while costing retailers, grocers and beverage companies an estimated \$58 million annually in additional operating costs. It will also negatively impact 3,700 high-quality beverage industry jobs throughout the Commonwealth.

The existing bottle bill charges an extra five cents for beer and soda products and was passed 30 years ago before Massachusetts adopted widespread curbside and other recycling programs.

The expanded bottle bill continues to focus on a narrow portion of the waste stream, and it is estimated to increase the state's recycling rate by only 0.12 percent.

As an alternative to the bottle bill, Real Recycling for Massachusetts advocates for expanded recycling through measures that are more effective and less burdensome, including expanding curbside pickup, making it easier to recycle on-the-go, making recycling accessible in more public places such as parks and arenas and supporting comprehensive litter prevention programs.

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## PAPER

### AF&PA June paper reports

The American Forest & Paper Association released its June 2012 U.S. paper reports.

#### Containerboard

Containerboard production lost just 0.3 percent over the same month last year. Production was down 1.7 percent compared to May 2012, but the month over month average daily production increased 1.6 percent. The containerboard operating rate for June 2012 rose 1.5 points over May 2012 from 94.7 percent to 96.3 percent.

#### Paperboard

Total boxboard production decreased by 1.8 percent compared to June 2011 and decreased 0.7 percent from last month. Unbleached Kraft Folding production increased over the same month last year, but decreased compared to last month. Total Solid Bleached Boxboard & Liner production decreased compared to June 2011 and remained flat compared to last month. Recycled Folding production decreased compared to June 2011 and decreased slightly when compared to last month.

#### Recovered Fiber

According to the report, total U.S. industry consumption of recovered paper in May was 2.45 million tons, 4 percent lower than May 2012. Year-to-date consumption in 2012 is 3 percent lower than during the same period last year.

U.S. exports of recovered paper were flat in May compared to April, with decreases in Mixed and Pulp Substitutes offset by increases in Other Mechanical

and Corrugated. Year-to-date exports of recovered paper in 2012 are 4 percent lower than during the same period in 2011.

#### Printing-writing paper

June 2012 Printing-Writing Paper Report shows total printing-writing paper shipments decreased 8 percent in June compared to June 2011. Shipments for coated free sheet and uncoated mechanical grades posted double-digit year-over-year decreases compared to last June. U.S. purchases (shipments + imports - exports) of printing-writing papers also decreased 8 percent in June. Total printing-writing paper inventory levels decreased 4 percent from last month, primarily due to double-digit decreases among the mechanical grade papers.

#### Additional key findings include:

- Purchases of coated mechanical (CM) papers are up slightly compared to June 2011, which is the second consecutive year-over-year increase.
- Shipments of uncoated free sheet (UFS) papers are down year-over-year, which is the second-largest decrease in past 20 months.
- Shipments of coated free sheet (CFS) papers are at the highest level since November 2011 but still decreased year-over-year.
- Uncoated mechanical (UM) paper shipments are down double-digits compared to year-ago but reached the highest point in the past five months.

## CONSTRUCTION & DEMOLITION

### Peña's Disposal Service wins C&D recycling award

The California Resource Recovery Association said that Peña's Disposal Service has been chosen as the 2012 winner in the statewide "Outstanding Construction & Demolition Debris Diversion" category.

Peña's Disposal Services, Inc. was awarded the contract to handle construction and demolition recycling for Tulare County and seven of its incorporated cities in 2011. Under the previous hauler, the recycling rate was 56 percent. In the first 3 months of the new contract under Peña's, the rate jumped to 82 percent. Today, the average remains 82 percent, with a 1-month record high of 89 percent.

More recycling means less construction material filling Tulare County's landfills, and more materials available to recycle. Because of the C&D contract with Tulare County, Peña's Disposal was able to add 25 jobs for Tulare County residents, according to company vice president Art Peña.

"This kind of improvement in recycling was noticed in Sacramento and Peña's is honored to be recognized," Peña said. "We are a small, family-owned, company competing with national companies. But the accomplishment of our staff is really remarkable. We are pleased to do



Peña's Disposal's operation in Cutler is a material recovery facility.

our part to get Tulare County closer to the state's overall rate for diverting waste from the waste stream and into recycling."

The notification letter from the California Resource Recovery Association (CRRA) noted that the awards committee "was impressed by the sustained increase in diversion provided for C&D materials in Tulare County." The award will be presented during the annual CRRA Statewide Conference and Tradeshow in Oakland.

Peña's Disposal's operation in Cutler is a Material Recovery Facility and a one-stop resource for recycling household hazardous waste, green waste, e-waste and construction and demolition waste, as well as CRV buy-back.

The family-owned company provides curbside waste pickup in unincorporated areas of Tulare and Fresno counties and customized commercial recycling services to help businesses meet the new state mandates.

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## CONSTRUCTION & DEMOLITION

### New Haven company faces fine for waste violations

A New Haven, Connecticut company that makes door hardware faces a penalty of \$64,495 from the U.S. Environmental Protection Agency (EPA) for violating state and federal hazardous waste laws.

According to a complaint filed recently by EPA's New England office, the Sargent Manufacturing Company failed to segregate containers of incompatible hazardous waste, failed to have an adequate hazardous waste training program, failed to close containers of hazardous waste, failed to maintain adequate aisle space between containers of hazardous waste, failed to mark containers with the date that accumulation of hazardous waste began, failed to update and submit revised contingency plan to local authorities and otherwise failed to manage hazardous waste in accordance with the requirements.

The case stems from a March 2011 inspection by EPA to see if the company was meeting the requirements of the federal Resource Conservation and Recovery Act and related state regulations. This federal law is designed to help protect public health and the environment.

Sargent's failure to segregate containers of spent hydrochloric acid and sodium fluoride prompted significant concern. If the containers were to leak, the mixing of these incompatible wastes could lead to a reaction, such as fire or explosion, or the generation of flammable hydrogen gas. Sargent's failure to have an adequate hazardous waste training program increased the likelihood that wastes generated may not be properly managed and that Sargent personnel may not be able to adequately coordinate all emergency response measures in the event of emergency.

### EPA national building competition

The U.S. Environmental Protection Agency's (EPA) Energy Star program launched the 2012 National Building Competition: Battle of the Buildings with a record 3,200 buildings across the country going head to head to improve energy efficiency, lower utility costs and protect health and the environment.

Over 30 different types of commercial buildings are facing off in this year's National Building Competition, representing all 50 states, Puerto Rico, U.S. Virgin Islands and the District of Columbia.

Competitors use EPA's Energy Star online tool, Portfolio Manager, to measure and track their buildings' monthly energy consumption. Last year, the University of Central Florida won after cutting the energy use of an on-campus parking garage by more than 63 percent in just 1 year.

Throughout the year long competition the public can keep track of the progress made by buildings on the internet.

## ALTERNATIVE ENERGY

### New wind project started in Washington State

First Wind, an independent U.S.-based wind energy company, commemorated the start of major construction on its first wind project in Washington State, Palouse Wind in northern Whitman County. Local officials were joined by community and business leaders along with First Wind and industry executives at a celebratory kick-off event for the 105 MW project, which will bring significant revenue to the local community during construction and through long-term tax revenues, while making clean, renewable energy available for up to 30,000 homes.

Speakers during the event included Senator Mark Schoesler, 9th District; Representative Susan Fagan, 9th District; and Greg Partch, Chair Commissioner of Whitman County; along with key project partners. Guests heard remarks before a celebratory luncheon on the project site.

Project construction will include the installation of 58 Vestas V100-1.8 MW turbines between State Route 195 and the town of Oakesdale. Once complete, the Palouse Wind project will be the largest renewable energy facility in the county with the capacity to generate enough clean energy to power about 30,000 homes, equal to the total energy load of all of Whitman County. Construction of the project is expected to be completed by November and it will be online and operating by the end of the year.

Avista Corporation will purchase the energy produced by the Palouse Wind project and will take delivery of the power

through a direct interconnect to the Avista 230 kilovolt Benewah-to-Shawnee transmission line. This will be the first wind project built in Avista's service territory and it will help Avista achieve its goal of meeting Washington State's renewable portfolio standard.

The general contractor on the project, RMT, Inc., is hiring many Pacific Northwest-based businesses and subcontractors to work on the project. During construction, it is estimated that the project will create about 150 jobs and will result in \$30 million of spending with local businesses in Whitman County and the Inland Northwest. Once Palouse Wind is operational, Whitman County will receive approximately \$12 million over the next 20 years in property tax revenues, or approximately \$700,000 annually, which can be used to lower tax rates, improve schools, maintain roads and enhance local services.

The project's 58 Vestas V100-1.8 MW wind turbines are state-of-the-art technology. Turbine deliveries are expected in the next month. In May 2011, First Wind received a Conditional Use Permit for Palouse Wind. Avista announced that it had selected to purchase power from First Wind's Palouse Wind project in June 2011. Initial stages of construction work began in October 2011 and shortly thereafter First Wind secured \$210 million in construction financing. The project is expected to be online and operational before the end of 2012.

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The unit, which has a control panel with the starter, hoppers, and spare chopper knives, is ready to assemble.

#### Additional Equipment

- 200 HP Ball And Jewel Granulator, 36"x 52" - Federal Equipment Item #34196
- 300 HP Condux Granulator - Federal Equipment Item #34276
- 240 HP Weima Shredder WLK 18/2x90 V Rotor - Federal Equipment Item #38474
- 200 HP Cumberland Model 62B Granulator - Federal Equipment Item #38475

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## ALTERNATIVE ENERGY

### Waste Management adds 13 CNG fueling stations

Waste Management (WM) has opened 13 compressed natural gas (CNG) stations across the country in the first half of 2012, of which 9 have public accessible fueling stations. This brings WM's natural gas fueling stations to 31 with another 17 either in operation or in construction by the end of 2012. Waste Management's new CNG fueling stations were located in the following communities:

- Mesa, Arizona
- Pompano Beach, Florida
- Venice, Florida
- Stickney, Illinois
- Louisville, Kentucky
- Baltimore, Maryland
- Blaine, Minnesota
- Portland, Oregon
- Washington, Pennsylvania
- West Jordan, Utah
- Conroe, Texas
- Auburn, Washington
- Woodinville, Washington

Waste Management owns the stations, purchases the fuel and finances the construction of the stations. It also enters into maintenance contracts with third party companies. This strategy allows WM to secure better natural gas prices in the long run.

To optimize costs, the company's preferred platform for these stations is to time-fill its trucks according to a set schedule. The trucks use a slow-fill method, which carry approximately 70 diesel gallon equivalents of CNG – a capacity that allows them to run for 10 to 12 hours and complete a typical day's waste or recycling collection route.

For public accessible fueling stations that serve commercial and consumer vehicles, fast-fill capability is installed. The self-service Clean N' Green Fuel stations are open 24/7 and accept major credit cards as well as fleet cards.

### DHL Express launches 100 propane autogas vans for pickup and delivery fleet



DHL Express launched 100 pickup and delivery vans fueled by clean, safe and economical propane autogas. The new Ford E-250 cargo vans, each equipped with a Roush CleanTech dedicated liquid propane autogas fuel system, were on the road in late August and will support DHL Express pickup and delivery service within California, Florida, Georgia, Missouri and Texas.

The new alternative fuel vehicles join other propane vehicles already operating for DHL Express in Ohio, Tennessee and Louisiana. They all complement Deutsche Post DHL's GoGreen program and its target to improve the company's worldwide

carbon efficiency 30 percent by 2020, using 2007 levels as a baseline. Through the use of propane autogas, each alternative fuel vehicle saves over 22,587 lbs. of CO2 emissions each year.

DHL Express plans to use existing public refueling infrastructure in addition to adding refueling capability at its service center facilities. The infrastructure for propane autogas is less expensive than any other alternative fuel, and with thousands of stations across the nation, propane autogas already has the largest public refueling infrastructure of all alternative transportation fuel options.

### Department of Energy orders two OriginOil algae and oil systems

OriginOil, Inc., the developer of an energy industry cleantech process for harvesting algae and cleaning up oil and gas water, has received purchase orders for two test scale units from the United States Department of Energy's (DOE) Idaho National Labs (INL) under its research agreement. One unit is designed to dewater algae continuously with very low energy, while the other can recover 98 percent of contaminants from frac water in a single pass, as shown in third party testing.

Deborah T. Newby, molecular biologist at INL's Biofuels and Renewable Energy Department said, "We are anxious to test OriginOil's new equipment in our algal dewatering research. The system appears to have the potential to significantly reduce the algal dewatering barrier, allowing us to dewater large quantities of algae for use in applications, including the

production of formulated feedstocks blended from algal and terrestrial biomass."

Newby added, "We also are interested in testing OriginOil's system for processing frac flowback water. The boom in hydraulic fracturing is urgently forcing new practices in water conservation, and OriginOil's system may be a key part of the answer."

In an in-kind transaction under its Cooperative Research and Development Agreement with OriginOil, INL will purchase an Algae Appliance™ Model 4, which can continuously concentrate up to four liters of algae production per minute, and a Solids Out of Solution™ Model 2K, which is capable of handling first-stage cleanup of up to 2,000 gallons of frac flowback water per day.

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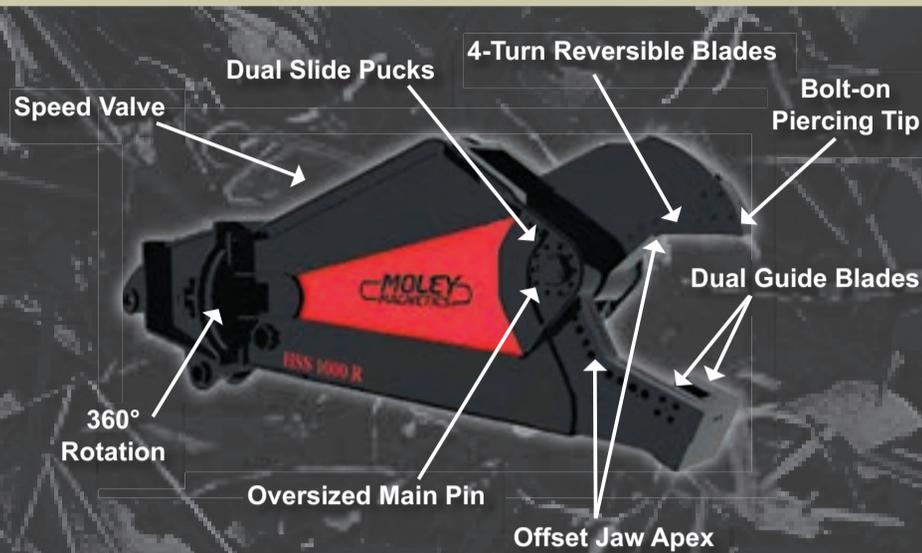
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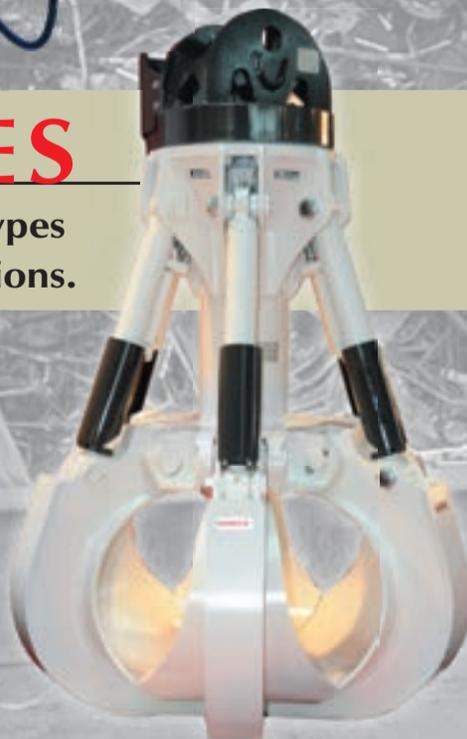
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# METALS

## June finished steel imports down by 13 percent

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

	JUN 2012	MAY 2012	2012 Annual (est)	2011 Annual	% Change 2012 Annual vs. 2011
SOUTH KOREA	293	340	3,733	2,837	31.6%
CHINA	174	172	1,569	1,231	27.4%
JAPAN	131	188	1,963	1,477	32.9%
GERMANY	121	121	1,269	954	33.1%
TURKEY	88	132	1,809	733	146.7%
RUSSIA	69	67	908	521	74.4%
TAIWAN	66	80	931	647	43.8%
All Others	1,156	1,313	14,814	13,434	10.3%
<b>TOTAL</b>	<b>2,098</b>	<b>2,412</b>	<b>26,997</b>	<b>21,835</b>	<b>23.6%</b>

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,593,000 net tons (NT) of steel in June, including 2,098,000 NT of finished steel (down 15 and 13 percent each, respectively, from May final data). Year-to-date (YTD) finished imports are up 22 percent versus the same period in 2011. Finished steel import market share in June was 23 percent and is 24 percent YTD.

A key finished steel product with a significant import increase in June 2012 compared to May is tin plate (up 20 percent). Major products with significant YTD import increases versus the same period last year include reinforcing bar (up 55 percent), plates – cut lengths (up

51 percent), oil country goods (up 40 percent), sheets and strip – all other metallic coatings (up 38 percent) and sheets and strip galvanized hot dipped (up 38 percent).

In June, the largest volumes of finished steel imports from offshore were from South Korea (293,000 NT, down 14 percent), China (174,000 NT, up 1 percent), Japan (131,000 NT, down 30 percent), Germany (121,000 NT, no change) and Turkey (88,000 NT, down 33 percent). For the first 6 months of 2012, the largest offshore suppliers were South Korea (1,866,000 NT, up 24 percent), Japan (982,000 NT, up 30 percent), Turkey (905,000 NT, up 100 percent), China (785,000 NT, up 40 percent) and Germany (635,000 NT, up 31 percent).

## Georgia Power boosts fridge recycling incentive to \$50

Georgia Power's EarthCents® Refrigerator Recycling Program has increased its incentive for recycling old refrigerators and freezers from \$35 to \$50.

The program gives Georgia Power customers with second working refrigerators and freezers a quick, convenient and effective way to conserve energy and save money on their electric bills. Older refrigerators and freezers, often kept in garages and basements, can use as much as four times more energy than the newer Energy Star models.

An estimated 235,000 secondary refrigerators around the state are more than 10 years old and predate higher energy efficiency standards set for new models. Customers who remove these inefficient appliances from their home can save up to \$150 a year in electricity costs.

Customers who have older, energy-wasting refrigerators or freezers that are still in working condition can contact Georgia Power to arrange a free in-home pickup and receive \$50 cash back.

The old units are removed and recycled in an environmentally friendly way.

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# METALS

## July steel import permit application numbers decline

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of July totaled 2,627,000 net tons (NT). This was an 8 percent decrease from the 2,855,000 permit tons recorded in June, but a 1 percent increase from the June preliminary imports total of 2,593,000 NT.

Import permit tonnage for finished steel in July was 2,067,000 NT, down 2 percent from the preliminary imports total of 2,098,000 NT in June. The estimated finished steel import market share in July was 23 percent, and it is 24 percent through 7 months of 2012.

Finished steel imports with large increases in July permits versus the June preliminary include line pipe (up 50 percent), standard rails (up 43 percent), hot rolled sheets (up 16 percent) and cold finished bars (up 14 percent). Major

products with significant year-to-date (YTD) increases versus the same period in 2011 include reinforcing bars (up 54 percent), line pipe (up 45 percent), cut lengths plates (up 40 percent), oil country goods (up 36 percent), sheets and strip hot dipped galvanized (up 31 percent) and sheets and strip all other metallic coatings (up 27 percent).

In July, the largest finished steel import permit applications for offshore countries were for South Korea (332,000 NT, up 13 percent from June), Japan (169,000 NT, up 29 percent), China (119,000 NT, down 32 percent), Italy (88,000 NT, up 81 percent) and India (84,000 NT, up 187 percent). Through the first 7 months of 2012, the largest offshore suppliers were South Korea (2,198,000 NT, up 21 percent from the same period in 2011), Japan (1,151,000 NT, up 28 percent) and China (903,000 NT, up 26 percent).

## Nucor reports financial results

Nucor Corporation reported consolidated net earnings of \$112.3 million, or \$0.35 per diluted share, for the second quarter of 2012. By comparison, Nucor reported net earnings of \$145.1 million, or \$0.46 per diluted share, in the first quarter of 2012 and net earnings of \$299.8 million, or \$0.94 per diluted share, in the second quarter of 2011.

In the first half of 2012, Nucor reported consolidated net earnings of \$257.4 million, or \$0.81 per diluted share, compared with consolidated net earnings of \$459.6 million, or \$1.44 per diluted share, in the first half of last year.

In late June 2012, Nucor completed the acquisition of the entire equity interest in Skyline Steel LLC ("Skyline") and its subsidiaries for the purchase price of approximately \$684 million including most current working capital adjustment estimates. Second quarter results were negatively impacted by non-cash charges of \$8.5 million, or \$.02 per diluted share, which were not factored into second quarter earnings guidance that was announced prior to the acquisition.

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

## Sims teams with Providence to eliminate illegal guns

Providence, Rhode Island Mayor Angel Taveras and the Providence Police Department have created an anonymous tip line that residents can use to report illegal guns in Rhode Island's capital city.

The Illegal Gun Tip Line – 1-855-776-7100 – offers anonymity and cash rewards up to \$1,000 to people who provide information that leads to the acquisition of an illegal, functional firearm.

Modeled on gun tip lines that have had success in Washington, D.C. and other cities, the tip line is completely anonymous and confidential. People who provide tips will not be asked to give their names or other personal information, and the tips will not be recorded or traced in any way.

Individuals can provide tips in three ways:

- By calling 1-855-776-7100 at any time;
- By texting 'PPDTIP' plus your tip to CRIMES (274637);
- Via an anonymous web-form at [www.crimereports.com](http://www.crimereports.com).

Cash reward amounts will be determined by a review committee chaired by Providence Police Commander Thomas Oates, based on the individual context of each case. Criteria will include whether an arrest was made, the number of firearms acquired and other information. Individuals eligible for cash rewards will pick up their funds anonymously at an undisclosed location in the city.

Creation of the Illegal Gun Tip Line is made possible by Sims Metal Management, which has provided a \$30,000 grant to establish and operate the tip line as a pilot program this summer and next summer. Resources will be identified to fund the tip line in future years.

"Safety is our priority at Sims Metal Management and that extends into the communities in which we locate. So we are pleased to help fund the Providence Police Departments illegal gun tip line," said Anthony Izzo, regional president – New England of Sims Metal Management, which established its New England export terminal on Providence's working waterfront last year.

## Potomac Edison starts rebate program

The new Appliance Recycling Program from Potomac Edison can reduce Maryland customers' energy costs by up to \$150 per year while putting \$50 in their pockets when they have their old second refrigerators or freezers hauled away and recycled.

Potomac Edison works with JACO Environmental, which removes the appliances from residents' homes. JACO then transports the units to its recycling facility, where the old appliances are dismantled and de-manufactured in an environmentally responsible manner.



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$258.00	\$295.00	\$330.00	\$369.00	\$369.00
#1 Bundles	per gross ton	270.00	294.00	330.00	365.00	370.00
Plate and Structural	per gross ton	275.00	290.00	331.00	370.00	385.00
#1 & 2 Mixed Steel	per gross ton	275.00	286.00	331.00	350.00	365.00
Shredder Bundles (tin)	per gross ton	235.00	259.00	249.00	275.00	310.00
Crushed Auto Bodies	per gross ton	235.00	259.00	249.00	275.00	310.00
Steel Turnings	per gross ton	175.00	180.00	240.00	200.00	245.00
#1 Copper	per pound	2.90	3.05	3.10	3.15	3.15
#2 Copper	per pound	2.74	2.91	3.02	3.00	2.97
Aluminum Cans	per pound	.55	.59	.67	.68	.73
Auto Radiators	per pound	1.90	1.99	2.10	2.00	2.08
Aluminum Core Radiators	per pound	.70	.73	.65	.69	.68
Heater Cores	per pound	1.70	1.65	1.75	1.70	1.75
Stainless Steel	per pound	.54	.57	.70	.69	.70

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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## WASTE

### Veolia reopens state-of-the-art hazardous materials reclamation facility

Veolia ES Technical Solutions LLC, the hazardous waste division of Veolia Environmental Services North America (VESNA), celebrated the re-opening of its hazardous reclamation and treatment facility in West Carrollton, Ohio. An on-site re-opening event played host to international, national and local dignitaries including Richard Burke, president and CEO of Veolia Environmental Services North America, and Jeffrey Sanner, Mayor for the City of West Carrollton. The facility, which was rebuilt following a fire in 2009, incorporates cutting edge technology to reclaim and repurpose hazardous materials, greater than 70 percent of which comes from businesses in the Ohio Valley.

The West Carrollton facility repurposes and reclaims eight million gallons per year of oils, paints, solvents and other hazardous materials and converts them back into material that can be reused. Many solvents are reclaimed to 99.5 per-

cent purity, putting West Carrollton at the forefront of the company's commitment to turning waste into a resource.

Following the 2009 fire, Veolia invested considerable effort and capital into designing a new state-of-the-art reclamation facility from a safety and technological standpoint. All equipment in the new facility, including treatment, processing and transfer equipment are state of the art, and align with the most updated building and safety standards for a facility of this type. The use of best available current technology allows for emissions recovery to 98 percent (the previous system was 90 percent) and new storage tanks have a 24 percent increase in capacity to allow for more efficient processing and outbound shipments.

The facility started processing waste in 1979 and will be fully functional by summer of 2012. Veolia will employ 70-80 local residents on-site.

### Republic Services reports increased earnings

Republic Services, Inc. reported net income of \$149.2 million, or \$0.40 per diluted share, for the 3 months ended June 30, 2012, versus \$46.5 million, or \$0.12 per diluted share, for the comparable period last year.

Republic's net income for the 3 months ended June 30, 2012 and 2011 includes a number of charges and other expenses that impacted its results. Excluding these items, net income for the three months ended June 30, 2012 and 2011 would have been \$218.4 million, or \$0.59 per diluted share, and \$184.9 million, or \$0.49 per diluted share, respectively.

Revenue for the 3 months ended June 30, 2012 decreased to \$2,060.6 million compared to \$2,086.6 million for the same period in 2011. This decrease in revenue of 1.2 percent was due to decreases in fuel surcharges of 0.1 percent, volumes of 1.3 percent and recycling commodities pricing of 1.0 percent, partially offset by increases in core price of 0.6 percent and acquisitions, net of divestitures of 0.6 percent.

For the 6 months ended June 30, 2012, net income was \$292.1 million, or \$0.79 per diluted share, versus \$204.7 million, or \$0.54 per diluted share, for the comparable period last year.

Republic's net income for the six months ended June 30, 2012 and 2011 includes a number of charges, other expenses and benefits that impacted its results.

Revenue for the six months ended June 30, 2012 decreased to \$4,043.0 million compared to \$4,051.5 million for the same period in 2011. This decrease in revenue of 0.2 percent was made up of decreases in volumes of 0.6 percent and recycling commodities pricing of 0.9 percent, partially offset by increases in core price of 0.6 percent, fuel surcharges of 0.2 percent, and acquisitions, net of divestitures of 0.5 percent.

Republic's board of directors declared a regular quarterly dividend of \$0.235 per share for stockholders of record on October 1, 2012 to be paid on October 15, 2012.

### EPA proposes to renew US Ecology's PCB landfill permit

The U.S. Environmental Protection Agency (EPA) is soliciting comments on its proposed PCB permit for US Ecology, Inc., a hazardous waste management facility located outside Beatty, Nevada. EPA's proposed permit will allow US Ecology to continue commercial storage, treatment

and disposal of PCB wastes. The company has disposed of PCBs at this location since 1978.

The 45 day comment period began August 10 and ends September 24. The EPA is hosting an informational Public Meeting and Hearing on September 13

from 6:00 – 8:00 pm at the Beatty Community Center located at 100 A Avenue South in Beatty, Nevada.

Production of PCBs was banned in the United States in 1979. PCBs remain present in some products and materials produced before the 1979 ban. Products

that may contain PCBs include: electrical transformers and capacitors, other electrical equipment and fluorescent light ballasts. EPA regulates the treatment, storage and disposal of PCBs under the Toxic Substances Control Act.

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## WASTE

# WM restructures, cutting 700 employee positions

Waste Management, Inc. (WM) unveiled a plan to reorganize its operations, designed to flatten the management structure and remove approximately 100 basis points of costs.

The reorganization is designed to sharpen the focus on the company's three major initiatives: yield management, improving efficiency in operations and better meeting customers' needs. The principal organizational changes that will take place are:

- Removal of the management layer consisting of four geographic groups (Eastern, Midwest, Southern and Western);

- Consolidation and reduction of the number of areas managing the core collection, disposal and recycling businesses from 22 to 17;

- Reduction of corporate support staff in order to better align their support with the needs of the operating units, while reducing costs; and

## Waste Connections reports second quarter financials

Waste Connections, Inc. announced its results for the second quarter of 2012. Revenue totaled \$410.7 million, a 5.3 percent increase over revenue of \$390.2 million in the year ago period. Operating income was \$81.7 million compared to \$84.8 million in the second quarter of 2011.

Operating income in the current year period included approximately \$3.4 million (\$2.1 million net of taxes) associated with costs incurred in connection with the relocation of corporate headquarters from California to Texas, and acquisition-related transaction costs. Net income attributable to Waste Connections in the quarter was \$42.4 million, or \$0.34 per share on a diluted basis of 124.0 million shares.

Adjusted net income attributable to Waste Connections in the quarter was \$44.4 million, or \$0.36 per share. Adjusted net income attributable to Waste Connections in the prior year period was \$44.8 million, or \$0.39 per share, adjusting primarily for acquisition-related transaction costs.

For the 6 months ended June 30, 2012, revenue was \$787.2 million, a 9.1 percent increase over revenue of \$721.7 million in the year ago period. Operating income was \$146.8 million compared to \$153.4 million for the same period in 2011.

Operating income in the current year period included approximately \$10.5 million (\$7.6 million net of taxes) associated with costs incurred in connection with the relocation of our corporate headquarters from California to Texas, acquisition-related transaction costs, and one-time equity compensation expense related to awards made at the time of the modification of named executive officers' employment contracts.

- Elimination of approximately 700 employee positions.

WM also announced new appointments of key officers:

- James E. Trevathan, Jr., previously executive vice president – growth, innovation and field support, has been appointed executive vice president and chief operating officer.

- Jeff M. Harris and John J. Morris have each been appointed to the role of senior vice president, field operations. Harris was most recently senior vice president – midwest group, and Morris was most recently chief strategy officer and prior to that he was area vice president for one of the company's largest markets. In these roles, Harris and

Morris will oversee the 17 operating areas.

A third quarter pre-tax charge to earnings in the range of \$50 to \$60 million is anticipated, primarily related to employee separation costs. This amount does not include potential additional charges for facility closures or consolidations.

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## BUSINESS BRIEFS

### David J. Joseph makes organizational changes

■ The David J. Joseph Company (DJJ) recently made several organizational changes.

Mark Schaefer, current president of U-Pull-&Pay (UPAP), has been promoted to vice president of DJJ's Recycling Group. Schaefer will focus on business development in a newly created role. Schaefer, a 27 year DJJ veteran, began his career as a brokerage representative and has held various roles in brokerage, services and, since 2007, as UPAP president.

Schaefer is a graduate of Miami University in Oxford, Ohio and he earned his MBA from Denver University.

Tre Whitmore, current vice president of ferrous trading for Joseph's Brokerage Group, has been promoted to president of UPAP. Whitmore joined DJJ in 1993 as a brokerage representative, was later promoted to district manager, and has been a ferrous trading vice president since 2006. Whitmore earned his B.S. degree in Marketing from Indiana University in Bloomington.

Chris Stout, current Birmingham trading office district manager, has been promoted to vice president, ferrous trading, succeeding Tre Whitmore.

Stout joined DJJ in 1995 as a buyer for Western Metals Recycling, then joined the Brokerage Group where he has been district manager since 2001. Stout earned his B.S. degree from Weber State University in Ogden, Utah.

### Superior Trailer Sales new East trailer dealer

■ One of the largest trailer dealerships in the southwest, Superior Trailer Sales Company, has been named an authorized dealer for East Manufacturing. With five full service locations, Superior Trailer Sales will offer East's full line of flatbed, dump, and refuse trailers at their dealerships located in Texas, Oklahoma and Arkansas.

Superior Trailer Sales was started in 1983 by Frank Deel III, who now serves as chairman of the board. For the next 11 years the trailer dealership experienced extraordinary growth, doubling and tripling sales each year, and they have continued to grow ever since.

### Bandit Industries chooses two new dealers

■ Bandit Industries has added two new dealers to the company's North American dealer network.

Bandit Tree Care Products of Southern California is based in Foothill Ranch, California. This dealership is located between Los Angeles and San Diego, serving customers in both metro areas as well as the entire Southern California region.

Miner's Equipment and Truck Repair is centrally located in Oklahoma City to serve customers throughout Oklahoma. The staff is experienced in servicing a wide range of machinery but specializing in arborist equipment. Miner's Equipment and Truck Repair will also sell new Bandit chippers and stump grinders as well as Zenith knives.

### A&A Midwest Auto Wrecking expands service

■ A&A Midwest Auto Wrecking has expanded from its primary location in the Chicago area to now offer vehicle processing at its location in the Las Vegas area. The company purchases vehicles that are ready to be recycled.

"Though a vehicle may no longer be usable to the owner, A&A Midwest Auto Wrecking sees great value in the parts that can be disassembled and reused," said Scott Stolberg, president and CEO. Stolberg says the addition of auto wrecking services in Las Vegas adds capacity to the A&A Midwest Auto Wrecking automotive export salvage business that the company operates from an 80,000 sq.ft. facility in the Chicago suburb of Blue Island, Illinois. Each month in Las Vegas the company will process approximately 25 vehicles and ship 1 or more containers for export to developing countries.

### Liebherr Construction adds Michael Balella

■ Michael Balella has joined Liebherr Construction Equipment Co. in the newly created position of manager, parts marketing. This new role will work closely with the Liebherr dealer organization to increase sales and improve customer service for after-market repair parts. Balella will coordinate parts pricing on competitive items and add additional product offerings.

Bob Bollinger, parts manager, will continue with responsibility for inventory levels and order fulfillment.

### OriginOil adds third independent director

■ OriginOil, Inc., developer of a technology to convert algae into renewable crude oil, recently appointed Anthony Fidaleo to its board.

Fidaleo will serve as OriginOil's third independent director. In the past three months the company has added two independent directors and chartered Audit and Compensation Committees in preparation for the commercialization of its breakthrough platform technology and the extension of its market applications.

Fidaleo is a finance executive with over 25 years of experience as a certified public accountant, chief financial officer, executive vice president, and chief operating officer with public and private companies. He was most recently CFO and executive vice president of EOS Petro, an early stage oil and gas exploration company.

Fidaleo has run his own accounting and consulting practice since 1992, primarily as an acting chief financial officer or senior consultant for publicly traded companies ranging from start-ups to Fortune 500s. From November 2005 to February 2009 Fidaleo was the chief financial officer, chief operating officer, executive vice president and member of the board of directors and operating committee for iMedia International, Inc.

*I was married for a short time... Just long enough to realize that all those comedians weren't joking!*

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## BUSINESS BRIEFS

### International Equipment Solutions acquires CWS

International Equipment Solutions, LLC (IES) has acquired, through an indirect, wholly owned subsidiary, CWS Industries Corp. This is the fourth acquisition by IES since its formation. Terms of the transaction were not disclosed.

IES was formed in September 2011 as a platform for investments serving the construction, agriculture, landscaping, infrastructure, recycling, demolition, mining and energy industries. IES' first two acquisitions occurred in September, 2011 when the company acquired Paladin Brands Holding, Inc. and Crenlo LLC from Dover Corporation. In November 2011, Stephen Andrews was retained as chief executive officer of IES to lead the integration of the first two acquisitions and to aggressively grow and globalize the company. As part of its globalization strategy, IES acquired Siac do Brasil, Ltda. in June 2012.

### Barko Hydraulics acquires Norco Equipment assets

Barko Hydraulics, LLC, a forestry and material handling equipment company, has acquired the assets of Norco Equipment Company of Oconto Falls, Wisconsin.

The acquisition will enable Barko to significantly expand customer options in the forestry, bio-energy, recycling and right-of-way maintenance markets while complementing Barko's existing line of industry leading material handlers.

Norco currently manufactures products under the PUMA Equipment brand headquartered in Oconto Falls, Wisconsin. PUMA builds four and six-wheel forwarders, track harvesters, processing heads, and firewood processors that are both durable and technologically advanced.

*My old aunts used to come up to me at weddings, poking me in the ribs and cackling, "You're next!"*

*After a while, I figured out how to stop them. I started doing the same thing to them at funerals!*

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## Events Calendar

### September 10th-13th

**Solar Power International 2012.** Orlando County Convention Center, Orlando, Florida. 703-738-9460 • www.solarpowerinternational.com

### September 12th-14th

**22nd Annual Arkansas Recycling Coalition (ARC) Conference & Trade Show.** Robinson Center, Little Rock, Arkansas. 866-290-1429 • www.recycleark.org

### September 16th-18th

**5th Annual Waste-to-Fuels Conference & Trade Show.** Mystic Marriott Hotel & Spa, Mystic, Connecticut. 800-441-7949 • www.waste-to-fuels.org

### September 26th

**Upper Peninsula Recycling Coalition.** Bay West College Campus, Iron Mountain, Michigan. www.uprecycles.com

### September 29th-October 3rd

**WEFTEC 2012 – 85th Annual Water Environment Federation Technical Exhibition and Conference.** New Orleans Morial Convention Center, New Orleans, Louisiana. 800-666-0206 • www.weftec.org

### October 15th-16th

**Biomaterials Symposium 2012.** The Westin Riverwalk Hotel, San Antonio, Texas. 207-781-9637 • www.biopolymersummit.com

### October 23rd-24th

**Northeast Recycling Council Fall Conference.** Hotel Northampton, Northampton, Massachusetts. 802-254-3636 • www.nerc.org

### October 24th-27th

**Automotive Recyclers Association's Annual Convention & Exposition.** Gaylord Palms Resort & Convention Center in Kissimmee, Florida. 888-385-1005 • www.a-r-a.org

### November 14th-15th

**23rd Annual New York State Recycling Conference and Trade Show.** Otesaga Resort Hotel, Cooperstown, New York. 518-482-7395 • www.nysar3.org

### January 16th-18th, 2013

**12th International Electronics Recycling Congress IERC 2013.** Salzburg, Austria. www.icm.ch

### January 28th-31st

**USCC 21st Annual Conference & Tradeshow.** Buena Vista Palace Hotel & Spa. Lake Buena Vista, Florida. 301-897-2715 • www.compostingcouncil.org

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### CASE LAUNCHES H SERIES ROUGH TERRAIN FORKLIFTS

Case Construction Equipment debuted two new H Series rough terrain forklifts, offering enhanced fuel economy and productivity along with industry-leading lift speed and dependable, high-performance lift capacities.

The Case 586H and 588H forklifts achieve Tier 4 Interim certification through the use of cooled exhaust gas recirculation technology and a diesel particulate filter. Both models feature Case turbocharged engines rated at 78 net hp that deliver a minimum 5 percent increase in fuel efficiency and faster response times than previous models, while meeting current emission standards.



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### TOWER UNITS EXTEND REACH OF DUST SUPPRESSION EQUIPMENT

Dust Control Technology developed tower mounts for the company's atomized misting equipment to address ongoing operations that generate dust in fixed locations. They are well suited for slag handling, aggregate processing, recycling operations and coal handling.

Designed to withstand wind loads of at least 100 mph, the towers are carbon steel pipe, hot dip galvanized to resist corrosion. Three tower sizes are currently available – 6", 8" and 10". The units help prevent dust or odor from entering the air stream, reducing the possibility of fugitive dust leaving the worksite.



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### WASTE SHREDDER FOR RDF APPLICATIONS FROM VECOPLAN

Vecoplan's V-EBS 2500 was designed for the production of refuse derived fuels (RDF) from MSW and other waste streams. It is especially adept at re-shredding low bulk density plastics, such as PET bottles, producing a very homogeneous particle size. Heavy-duty industrial screens on the V-EBS, can be quickly, easily and inexpensively changed.

The V-EBS has an infeed opening of 2510 x 1400mm, a rotor dimension of 1000 x 2510mm and has 54 cutting inserts on its rotor. It features a throughput capacity of 10 to 22 tons per hour.

# BUSINESS BRIEFS

## Timken appoints two executives to new positions

■ The Timken Company said that Christopher A. Coughlin and Richard G. Kyle have been named to the newly created positions of group presidents. In these roles, Coughlin and Kyle will be responsible for all activities related to the company's four business segments.

Coughlin assumes leadership of the company's mobile and process industries segments and Kyle takes the helm of the aerospace and steel segments. Each will hold corporate-wide responsibilities, with quality assurance and advancement activities reporting to Coughlin and Kyle overseeing the enterprise's innovation, engineering and technology efforts. They will continue to report to Griffith.

Timken also said that Salvatore J. Miraglia, president of the steel business, intends to retire at the end of the year, after more than 40 years of service with the company.

Coughlin joined Timken in 1984 in the company's steel operations, working on the original Faircrest Steel Plant project. He subsequently served as business development manager and held management positions in the company's European headquarters in Colmar, France, including vice president of industrial equipment, vice president of process industries and vice president of primary metals.

Kyle started his career at Timken in 2006 as vice president of manufacturing for the company's former industrial group. Subsequently, he was promoted to president of mobile industries, where he drove the transformation of the segment as well as managed global manufacturing operations. In 2010, Kyle's role was expanded to include the aerospace and defense segment, the position he held at the time of this appointment. Prior to joining Timken, he held a variety of management positions with Cooper Industries and then was vice president of operations for a division of Hubbell, Inc. until 2006.

Miraglia joined Timken in 1972 as a metallurgist and subsequently progressed through a variety of roles in research and purchasing. During his tenure, he held the positions of director of manufacturing in Europe, group vice president of industrial and super precision bearings in North America, and senior vice president of technology.

## Peoples named executive director of Carpet America

■ The board of directors of Carpet America Recovery Effort (CARE) has selected Dr. Robert Peoples as the new executive director of the industry-led coalition dedicated to the landfill diversion of carpet.

Peoples earned an undergraduate degree in Chemistry and Mathematics from Montclair State University, a Master's in Science in Physical Organic Chemistry and Doctorate in Physical Organic Chemistry from Purdue University.

Peoples replaces CARE executive director Georgina Sikorski, who left in May to pursue other projects and spend more time with her family.

## Aleris acquires Cast House Of Voerde Aluminum

■ Aleris has acquired the cast house of Voerde Aluminum GmbH. The Voerde cast house will give the company an additional annual casting capacity of 115,000 tons. The operation also will provide Aleris with increased manufacturing flexibility, and additional finishing and recycling capability.

Located in Northwest Germany, the Voerde cast house has supplied rolling ingot and billet to Aleris for many years.

## Clean Earth acquires Soil Remediation, Inc.

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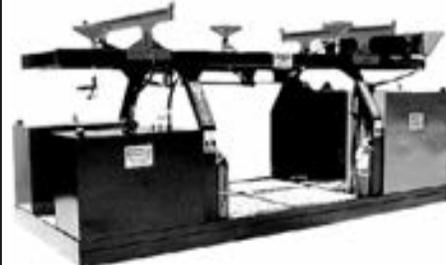
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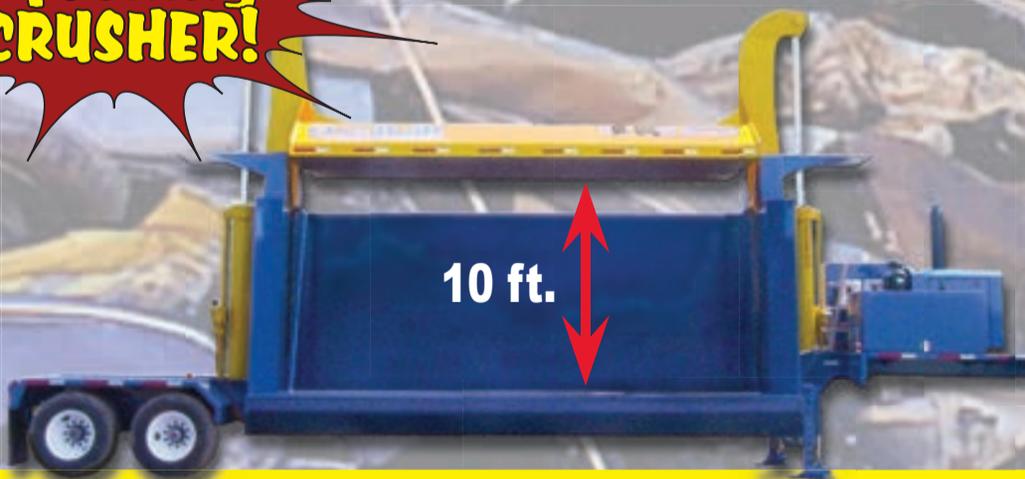
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## E-scrap export control proposal splits recyclers

by MARK HENRICKS

mhenricks@americanrecycler.com

Proposed legislation that would ban the export of certain types of electronic waste has divided recyclers, with the largest industry association opposing the ban and a vocal and growing movement supporting it.

The Responsible Electronics Recycling Act (RERA), as the bill is known, is a re-introduction of a bill that failed to pass in the last session of Congress. It's been introduced in both House and Senate, with sponsors or co-sponsors from both Republican and Democratic parties. Neither bill is given any chance of passing in the current Congressional session, due to the preoccupation with the upcoming elections. But given that similar legislation has been introduced in the last three sessions, it's likely to come up again.

The RERA would outlaw the export of unprocessed e-scrap including computers, phones, televisions and the like, but not including electronic components from scrap automobiles, nor functioning items that are intended for reuse or refurbishment. The prohibition would apply to exports to countries that are not members of the Organization for Economic Cooperation and Development, a 34-nation group of mostly European industrialized nations.

### Ban supporters

Industry support for the measure is spearheaded by the Coalition of American Electronic Recyclers (CAER), a group of 72 companies in the e-waste recycling business. "Recyclers should



The Responsible Electronics Recycling Act would outlaw the export of unprocessed e-scrap, such as that collected at community take-back events. The necessity and wisdom of such a ban is hotly debated amongst e-recyclers.

support the bill because it will be good for business," said Robert Houghton, president of Columbus, Ohio, e-recycler Redemtech and a member of the CAER steering committee.

"When e-waste is collected and sold to overseas materials brokers at a deep discount to global commodity prices, we are exporting both recycling jobs and

profits," Houghton said. "Every responsible recycler stands to gain business from sensible regulation of the export of unprocessed e-waste."

Houghton and other supporters say that the export ban would permit U.S. e-recyclers to compete on a level basis with recyclers in other countries. Houghton said passage of the law would

spur creation of tens of thousands of domestic recycling jobs, as companies hire workers to process e-scrap into commodities such as copper, glass and precious metals.

Third-world recyclers are said to favor undesirable methods such as burning circuit boards to get at precious

See E-SCRAP BILL, Page 7

## European e-waste rules changed to boost efficiency

Improved rules on the collection and treatment of e-waste were implemented last month in the European Union (EU). E-waste (waste electrical and electronic equipment, or WEEE) is one of the fastest growing waste streams, and it offers substantial opportunities in terms of making secondary raw materials available on the market. Systematic collection and proper treatment is a precondition for recycling materials like gold, silver, copper and rare

metals in used TVs, laptops and mobile phones. The new directive is a clear step forward in terms of environmental protection and a major boost to resource efficiency in Europe.

Environment Commissioner Janez Potonik said, "In these times of economic turmoil and rising prices for raw materials, resource efficiency is where environmental benefits and innovative growth opportunities come together. We now need to

open new collection channels for electronic waste and improve the effectiveness of existing ones. I encourage the Member States to meet these new targets before the formal deadline."

The directive introduced a collection target of 45 percent of electronic equipment sold that will apply from 2016 and, as a second step from 2019, a target of 65 percent of equipment sold, or 85 percent of electronic waste generated. Member

States will be able to choose which one of these two equivalent ways to measure the target they wish to report. From 2018, the directive will be extended from its current restricted scope to all categories of electronic waste, subject to an impact assessment beforehand.

The directive gives Member States the tools to fight the illegal export of waste more effectively. Illegal shipments of

See EURO E-WASTE, Page 6

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## A Letter from the Editor

Readers,

Welcome to the September issue of American Recycler. This month we turn our Focus to the rapidly-evolving field of electronics recycling.

The business of recycling electronics is evolving almost as quickly as the electronic devices themselves. We've come a long ways from the days of leaded glass screens on CRT monitors and expansive circuit boards in tower-style computers. Now, the glass is tough, scratch-resistant panes that may be glued onto a capacitive LED screen, and the circuitry packed into a body no thicker than several credit cards.

As technology evolves to meet consumer demand for thinner, more transportable devices, new repair and recycling difficulties will arise as well. Well-known brand Apple has been under fire for their latest product offerings because the manner of their assembly makes easy breakdown, repair or recycling of Apple computers or tablets next to impossible.

One of the early responses to the challenges offered by electronics recycling was simply to ship e-waste overseas and make it some other country's problem. When the manner of disposal in those countries came to light, there was a hue and cry over the dangers to human life those practices posed to the overseas workers.

In response, a bill banning the export of e-waste was drafted and presented to the legislature, where it subsequently failed to become law. For an in-depth look at the bill and what it would have, and may yet entail, take a look at this month's cover article by author Mark Henricks.

And while the bill has proponents and opponents, what should be noted is that even absent a federal mandate, the domestic market has largely regulated itself and turned e-waste into a profitable and sustainable business model. Should the government step in however, it is quite possible that their efforts would jeopardize the innovation and growth of a rapidly changing industry.

The very nature of Federal laws and administrative oversight makes any regulated industry more bureaucratic and therefore less able to respond to shifts in technology and best practices. The e-waste recycling market in the United States has flourished and evolved in the absence of government intervention so far, so why ruin a good thing?



Dave Fournier  
Focus Section Editor  
david@americanrecycler.com

## Pennsylvania DEP urges consumers to prepare for new electronics recycling law

The Pennsylvania Department of Environmental Protection (DEP) is advising consumers and businesses of new rules for recycling electronic devices that will take effect on January 24, 2013.

Enacted in 2010, the Pennsylvania Covered Device Recycling Act requires that consumers not dispose of covered devices, such as computers, laptops, monitors and televisions, with their trash. This means that trash haulers will no longer be able to take covered devices unless the municipality has a curbside electronics collection program that ultimately sends the devices to an electronics recycler.

"Proper recycling is important because there are millions and millions of devices, they have a limited useful life span, and they contain heavy metals such as lead, cadmium and mercury as well as other materials that do not belong in the normal trash stream," DEP secretary Mike Krancer said.

Many devices also contain valuable metals such as gold, silver and platinum and base metals like copper, iron and aluminum that can be separated and reused in new products.

The law also requires manufacturers of devices to provide for the

collection, transportation and recycling of these devices by establishing one-day events, permanent collection programs or mail-back programs.

Consumers can find more information on registered manufacturers and where to recycle covered devices at [www.dep.state.pa.us](http://www.dep.state.pa.us), keyword: Electronics Recycling.

Additional recycling information is available from County Recycling Coordinators, whose contact information can be found at the same website, keyword: recycle.

## UK mobile phone recycling company now in Slovakia

Redeem Ltd., a company specializing in recycling solutions for mobile network operators has extended its mobile phone re-sales and recycling partnership with O2 (Telefonica UK) into Slovakia.

In introducing the first 'new for old' mobile phone recycling initiative in Slovakia, Redeem is building its European platform on its existing partnership with O2.

Under the value recycling scheme, customers of O2 (Telefonica Slovakia) can trade-in their old mobiles in exchange for store credit in the form of an electronic voucher which can be spent at any O2 store in Slovakia. This will give them money off their choice of new phone or accessories. The amount of credit offered for each old handset is determined by Redeem's market-leading competitive pricing system. The credit voucher is valid for three months and may be combined with other special offers and discounts. Vouchers can also be combined to buy one or more new phones.

In addition to offering customers the in-store trade-in facility, O2 in partnership with Redeem, will

provide customers with the opportunity to buy refurbished handsets (including smartphones) at very competitive prices. This is the first time that fully refurbished phones have been offered through a major mobile network operator in Slovakia. All refurbished phones are sold under guarantee, having been fully restored by Redeem's trained experts to original factory settings and data-wiped to US government standards.

The scheme is promoted by substantial local TV advertising and social media campaigns on Facebook and Twitter.

Other opportunities for mobile phone operators to increase handset recycling also exist.

Redeem's executive chairman, Trevor Bayley said, "Millions of phones are upgraded each year in Europe, but only around 10 percent are recycled. The recycling market is nascent in Slovakia and only around 12,000 mobile phones a year were being recycled before this initiative. We estimate that, in a population of 5.5 million, there are 6.5 million mobile devices when you allow for tablets, plus most people retain at least one old phone as a spare. We believe there is a huge opportunity for mobile operators to lead the way, meet their obligations under the WEEE directive and boost their business. We aim to be in the global vanguard of that recycling drive."

Redeem has led innovations in mobile phone recycling solutions with mobile operators for 12 years, managing their international recycling services for business, consumer and wholesale customers. Redeem now manages the largest mobile operator recycling program in Europe, with centers in UK, Europe and Asia. It has also set up global partnerships to extract maximum value from recycled digital goods.

## Sunnking raises funds to benefit E-Scrap 4 Camp

Last year 251,021 lbs. of old electronics and equipment was recycled and \$8,000 was donated by Sunnking, Inc. through the E-Scrap 4 Camp fundraising campaign to benefit Camp Good Days and Special Times. The 2012 results are in and the total net weight of recycled electronics increased 26.9 percent to 318,541 lbs. resulting in \$10,000 donated by Sunnking for future programs at Camp Good Days.

The donation was based on a percentage of profits from the electronics recycled along with an additional donation from Sunnking on behalf of EduKids, Inc. who collected the highest volume of electronics on behalf of Camp Good Days.

Local businesses and organizations in Buffalo, New York were given the opportunity to set up an electronics recycling collections at their office for employees, friends and family to responsibly recycle their old/used electronics and equipment and help raise money for a good cause. There were also multiple one day events open to the public throughout the Buffalo area.

Items which were recycled included laptops, desktops, computer accessories, TV's, monitors, audio/video equipment, mp3 players, communications equipment, servers and IT equipment, printers, scanners, copiers, fax machines, cellphones, PDA's, medical/lab equipment and anything else with a circuit board.

## Round2 facility R2/RIOS certified

Round2 Inc. has earned the highest U.S. Industry designation – R2/RIOS Certified Electronics Recycler – for quality, environment, health and safety and data security throughout the electronics recycling process.

Round2 achieved its certification following several days of extensive, internal audits at its Grove City, Ohio, processing center. Round2 also holds R2, ISO 9001, 14001 and OHSAS 18001 certifications at all other North American processing centers.

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## E-Waste Systems plans to acquire logistics solutions company

E-Waste Systems, Inc., an electronic waste recycling and reverse logistics services firm, has signed a non-binding letter of intent (LOI) to acquire a multi-vendor reverse logistics solutions company headquartered in the Southwestern U.S. This LOI represents the fourth targeted acquisition by E-Waste Systems as part of its strategy to become an international provider of e-waste services.

The target's scope of work includes asset management, professional services and technical solutions including reverse logistics resolution, development and implementation of software and operational processes, inventory control, commodity audit programs and process integration, as well as engineering expertise, refurbishment and remanufacturing capabilities.

This LOI requires that the names of the company and the specific terms of the transaction be kept confidential to protect customers, suppliers and employees, but details will be revealed as soon as the definitive agreement has been executed.

Closing is contingent upon, among other things, due diligence and definitive agreements and completion of two years of Public Company Accounting Oversight Board qualified audits, all of which are expected to be commissioned soon.

## ecoATM expands network of instant cash recycling kiosks into Texas

ecoATM, the San Diego start-up known for its kiosks that fully automate the buy-back of used mobile phones and other portable electronics, has made its first major expansion outside of California by installing 28 kiosks in malls throughout Texas.

The network of ecoATM kiosks will next expand to other parts of the Southeast, East Coast and Midwest later this year.

The ecoATM kiosk network has been limited primarily to California until recently, but has already paid out millions of dollars to hundreds of thousands of customers for their old electronics, and in the process saved landfills from hundreds of thousands of potentially toxic electronic devices. ecoATM finds second homes for three-fourths of the collected devices and responsibly recycles the rest to reclaim the rare earth metals.

"It is exciting to take the first big step in expanding ecoATM's footprint," said Tom Tullie, chairman and CEO of ecoATM. "Over the past three years of testing the kiosks in California, ecoATM has seen tremendous consumer response, because we have created a kiosk that has two important features: it offers instant cash payment just like an ATM, and it is convenient and easy to use. No other buy-back or recycling systems have achieved this."

As part of the expansion into Texas, ecoATM is making a 10/100/1M Guarantee for this new network of kiosks in Texas:

The 10 is for the \$10,000 that ecoATM guarantees they will collect for charities in Texas over the next 12 months. If they don't, they will donate the balance to the Boys and Girls Club of America.

The 100 is the pledge that 100,000 used devices will be collected by ecoATM in Texas over the next year, thereby sparing Texan landfills many tons of toxic e-waste. If they don't, ecoATM will pay to plant a tree for every device short of the 100,000 mark through Trees for the Future, an organization in Haiti that employs local residents to plant sapling trees in deforested areas of their communities in Haiti.

The 1M is the \$1,000,000 that will be paid out from ecoATM to Texas customers over the next year. If they don't, they will double the dollar amount the kiosk network in Texas has collected for local charities during the same period.

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# EQUIPMENT SPOTLIGHT

## Size Reduction Equipment

by **MARY M. COX**

maryc@americanrecycler.com

Last month's cover article in *American Recycler* detailed aspects of the ever-increasing trend of electronics recycling. One part of that trend involves the use of machines that convert electronics from their original form, into the material configuration that makes it possible to recycle those electronics.

Cumberland Engineering is a global supplier of granulators, shredders, size reduction systems and recycling systems. "We've been a supplier of these products for over 72 years and we work hard to remain at the forefront of technology development and supply, for all market sectors. Annually, we supply 500 to 700 units to markets including e-waste, injection molding, extrusion, thermoforming, recycling and rotational molding. Within these market categories, applications include plastics, paper, metals, wire and cable," said John Farney, national sales manager.

Cumberland units are used to safely, economically and effectively reclaim valuable resin commodities. This is an environmentally responsible practice, as well as a large contribution to the bottom line of any manufacturing operation. The units range in capacity from 50 lbs. per hour, to over 15,000 lbs. per hour.



Cumberland Engineering

Farney noted that the safe usage, proper maintenance and responsible operation of the units are important, of course. "It is not as simple as 'the part fit into the unit' – there are specific methods involved in safe operation, proper processing of materials and the form and volume of the final material

stream," he stated. The marketplace demand for these units is robust, as resin prices remain high while automotive, durable goods, packaging, medical devices and other markets have shown significant growth in this year and also hold promise for 2013, according to Farney.

He concluded, "Having designed more models in the last 10 years than any other supplier, our designs are recognized for superiority, strength, durability and quality. Our position in this industry allows us to set the bar for other suppliers, and this creates the standard the industry expects for equipment performance. We are the highest-rated provider of these products, and our service and skilled sales network are second to none."

Mike Hinsey, vice president of international sales, said that Granutech has been meeting the demands of scrap processors since the firm was founded 40 years ago. "Our most popular shredder for e-scrap processing in the last 20 years has been our Saturn Twin Shaft Shredder. Our Grizzly grinder is a superb, final sizing machine for reducing low-iron content e-scrap into an evenly-sized fraction for effective separation with eddy current systems or more sophisticated optical and induction sorters. The machine is designed for difficult applications and provides ease of maintenance, backed with unequalled service after the sale," Hinsey said.

He said that e-scrap is the fastest-growing recycling market today with substantial growth still possible. "We've placed machinery around the world in some of the most difficult processing applications imaginable. The largest e-scrap system we supplied had to process 15 tons of material per hour and the location was near Copenhagen, Denmark. Our location in that same area is helpful to us in moving staff or parts to virtually any location in the world, within 48 hours, if needed," Hinsey explained.

He also noted that Granutech offers the expertise to design a complete system, without the limitations sometimes

connected with component suppliers. "We're able to guide clients in choosing the shredder – twin or quad shaft – that is most appropriate for a given setting. Some shredder manufacturers aren't able to offer that level of expertise. Systems can be as simple as our twin shaft shredder or as complex as three different styles of machines in a series, with a variety of separation processes," stated Hinsey.

He said there has been much debate about the proposed export ban on e-scrap, "which is so broad that it would inhibit not only e-scrap processors but traditional scrap processors from moving some globally-traded commodities."

Hinsley added, "Fortunately, this is being confronted on a number of levels as simply bad legislation and with con-



Granutech Saturn Systems



Komar Industries

tinued diligence, the ban will be rejected. Trying to create jobs by closing markets is short-sighted at best and perhaps illegal at worst. From our perspective, the biggest challenge is the lack of standardization among state regulations. There is rumbling of federal legislation, but that seems unlikely to materialize as states would expect funding to follow any federal mandate. Europe is more advanced than the U.S. in this area. EU manufacturers must comply with the WEEE [Waste Electronic and Electrical Equipment] directive and failure to comply leads to prosecution. That Directive is quite broad and covers most household appliances except refrigerators. U.S. practices may resemble that directive, at some point."

For engineered volume reduction solutions for a myriad of applications, Komar offers quad shredders, dual shaft shear shredders, single rotor shredders,

auger compactors, feeders and more. "Our industrial-strength products can efficiently grind and process e-scrap as well as municipal solid waste, pallets, cardboard, metal, medical waste, hazardous waste and more. They are in use around the world as companies seek solutions in today's recycling and waste

See SPOTLIGHT, Page 5

### Manufacturer List

#### Andela Products

Valerie Jackson

315-858-0055

www.andelaproducts.com

#### Cumberland Engineering

John Farney

608-347-6087

www.cumberland-plastics.com

#### Glass Aggregate Systems

Lois Kubes

507-334-6437

www.glassagg.com

#### Granutech Saturn Systems

Mike Hinsey

972-790-7800

www.granutech.com

#### Jordan Reduction Solutions

Richard Pyle

888-733-8248

www.jordanreductionsolutions.com

#### Komar Industries

Mark Koenig

614-836-2366

www.komarindustries.com

#### Shred-Tech

Joe Roberto

519-621-3560

www.shred-tech.com

#### SSI Shredding Systems, Inc.

Joby Easton

800-537-4733

www.ssiworld.com

#### UNTHA Shredding Technology

America, Inc.

Bernhard Mueggler

603-601-2304

www.untha-america.com



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## EPA extends comment period for electronics Superfund site

The U.S. Environmental Protection Agency (EPA) extended by 30 days the public comment period for the plan it has proposed for the contaminated ground water at the Cornell-Dubilier Electronics Superfund site in South Plainfield, New Jersey. The plan would prevent the use of contaminated ground water as a source of drinking water.

*Cornell-Dubilier Electronics manufactured electronics parts at the 26-acre facility from 1936 to 1962. Now, the groundwater at the site is contaminated with PCBs.*

The ground water associated with the site, located at 333 Hamilton Boulevard in South Plainfield, became contaminated with polychlorinated biphenyls (PCBs) and volatile organic compounds from past industrial activities. PCBs are likely cancer causing chemicals and can have serious neurological effects. Volatile organic compounds can cause serious damage to people's health.

The ground water at the Cornell-Dubilier Electronics site is contained within underground layers of rock and soil. Municipal water supply wells in Middlesex County draw ground water from some portions of the rock formations to the north of the site. The plan proposed in July will require enhanced and continued monitoring of the ground water and will prevent the contaminated site ground water from being used as a source of drinking water in the future. The Cornell-Dubilier Electronics Superfund site is part of a Borough of South Plainfield redevelopment area.

The EPA held a public meeting on August 7, 2012 to explain the proposed plan. At the request of a member of the public, the agency is extending the public comment period from its original date of August 20 to a new public comment deadline of September 20, 2012.

Cornell-Dubilier Electronics, Inc. manufactured electronics parts at the 26-acre facility from 1936 to 1962. PCBs and solvents were used in the manufacturing process and the company disposed of PCB-contaminated materials and other hazardous wastes at the facility property.

Electro-Shear employs high-torque, low speed counter-rotating, cutting blades in a variety of tooth patterns and sizes.

It operates at slow speed with minimum noise, dust and energy requirements with electrical automatic anti-jamming action. For an even smaller size piece output, the Tiger 4 Quad Shear is effective for primary and secondary shredding. With a unique, 4-shaft design, it delivers uniform piece size output. Material is kept in the cutting area for high-volume reduction, internally recycling particles over various pitched screens to produce finished sizing from .25" to 4".

Koenig noted that skilled Komar technicians provide on-site start-up and training so that clients are able to get started right away. Shredding and compacting systems can be equipped with auxiliary devices such as camera monitoring systems, in-feed and out-feed conveyors and other equipment that help the end user monitor the material processing chamber. With added controllers, photo-eye sensors, and light curtains, equipment is designed to provide users with maximum safety and control within a complete turnkey solution. Komar has been in business for over 30 years, with over 140 domestic and foreign patents in waste and recycling processing technology.

*A man dialed 911 frantically and shouted into the phone, "My wife is pregnant, and her contractions are only two minutes apart!"*

*"Is this her first child?" the operator queried.*

*"No, you idiot!" the panicked gentleman shouted. "This is her husband!"*

## Vermont businesses help achieve collection goals

Vermont's E-Cycles Program broke its first year goal to collect 3.4 million lbs. of computers, laptops, monitors, printers, televisions and computer peripherals from Vermonters across the state. Vermont legislation set a first-year goal for the program to collect 5.5 lbs. of electronic waste per capita. The program kicked off on July 1, 2011 and in the first program year, that goal has already been met. New estimates suggest that the program may collect as much as 5 million lbs. this year alone, or over 7 lbs. per person.

The success of the program is largely attributed to the convenience of having over 90 permanent collection sites across the state for Vermont residents to choose from as well as many collection events. Vermont households, charities, school districts and small businesses have taken advantage of the manufacturer-funded free recycling of electronics. Amounts collected thus far also reflect the outstanding contributions of Vermont businesses.

Businesses of any size can be a part of the E-Cycles team by participating as a collection location in the E-cycles Program. Collection locations must collect all banned electronic devices from Vermont covered entities at no charge and must provide for proper storage. Collection locations that provide basic sorting of materials see not only the increased traffic but will be paid for the material they collect.

Vermont retail businesses have also played a role in the success of the E-Cycles Program. Nearly 50 retailers across the state who sell electronic devices post signs and advise their cus-

tomers of the opportunities for free electronic recycling of the devices they are replacing. Even retailers operating outside of the Vermont program are coming on board to keep banned electronics from being disposed of in landfills.

The Vermont E-Cycles Program recognizes that businesses have also contributed to the electronic waste stream; making up part of the 3.4 million lbs. collected. Businesses with 10 or fewer employees can recycle their computers, monitors, printers, computer peripherals or televisions for free at any of the collection locations across the state. Small businesses are encouraged to contact collection locations prior to dropping off larger loads to schedule an appointment. The E-Cycles Program allows small businesses to remain competitive with the latest computers and electronics and still do the right thing for the environment when recycling those electronics without incurring the costs of disposal.

While E-Cycles does not provide for free recycling for larger businesses (more than 10 employees), collection locations may accept electronic waste from larger businesses for a fee. Vermont law prohibits the disposal of certain electronics in landfills. With proper disposal of electronic devices, residents help to keep toxic substances out of landfills and the environment.

Often, electronic devices that businesses recycle have higher reuse or resale value and low or no-cost options may exist for businesses looking to recycle computers and monitors.

## Spotlight

■Continued from Page 4

industries," said Mark Koenig, president of Komar Industries.

He added, "Security and fast return on investment are hot topics in the world of e-recycling. Our Piranha Single shaft shredder, for example, provides fine grind for circuit boards, wire and cable – in sizes of .5" to 4" for item type separation. The shredding action of the Tiger

### A&R 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.

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# A Closer Look

by Donna Currie

## Cemco

Neil Hise • 505-864-1200

Cemco, a manufacturer of vertical impact crushers, recently celebrated its 50th anniversary. Founded in 1962 by Mason Hise as a job shop and welding shop that repaired crushers in the field, the company now ships its own products to companies in 29 different countries and all over the US.



—Ty Juana, Jennifer and Neil Hise

Neil Hise, son of Mason and the current president of the company, started working for the company at only 16 years old, when he “learned how to weld and take things apart. There are things you learn the hard way.”

In 1968, after he returned from military service, he came back to the company. After spending some time in the engineering department, he moved into an office as vice president. In 1980, he took over as president of the company.

“We have always used an airplane as a business tool,” Neil said. He referred to the fact that they like to go visit customers in person. “It’s a relationship-built industry,” he said. “Whenever there was an inquiry we went out to see if we could help them.”

Cemco crushers are used in industries from aggregate to mining to glass recycling to scrap metal processing, and they can even be used to crush chicken feed. The basic machines are the same but the details are different – and that’s what’s important. The machines are customized for each customer, each material, and each location. “Our main focus is putting it in the place where it will make the customer the most money,” Neil said.

It’s also important that the customer get “a piece of equipment and they can just plug and play.” But while they machinery is ready to go after installation, Cemco also works with the customers to make sure they understand the way the machine works “and how to make money with the equipment.”

But that’s not the end of the interaction between Cemco and its customers. If a customer’s product changes, the machines can be modified to fit the new use.

Neil described the 31 employees at the company as “very talented young folks,” and said, “they can build anything.” That’s important because the company also builds custom machines to customer specifications. “We’re evolving as a manufacturer.”

That evolution includes building a portable fracking sand plant and doing some private labeling. Along with evolving the company has grown to include a new generation. Neil’s daughter, Jennifer, is now a vice president at the company, having first worked as an engineer in the mining industry. She has been working for Cemco for 10 years, where her previous experience helps her understand what the mining customers need.

Mike Cummins, Neil’s son-in-law, also works for Cemco. “He’s learning the complete operation,” Neil said, “He does a fine job.”

Ty Juana is the company CEO and Neil’s wife. “She controls the money,” he said. “Without Ty, I wouldn’t be here.” He said that he was “doubly blessed” to have her as his partner and that she handles things like the company profit sharing and “all the important things.”

That’s not the end of the family connection. Neil said, “The people who work for us are members of an extended family. We know their kids.” And those people are one of the things he’s most proud of in the company. “I don’t do it, they do it,” he said. About a quarter of the workforce has been with the company at least 10 years.

He’s also proud of the fact that his business is environmentally sound. When he moved the manufacturing facility and the old site was tested for pollution, “they found zero pollution after 36 years,” he said.

Those tests on his old property are an example of what he considers his greatest challenge – government regulations. “If we don’t get some relief from these onerous regulations, we’ll be gone,” he said, but he finds some hope in the fact that he sees a lot of American companies bringing jobs back home.

Neil said that the care that goes into American-made product can’t be reproduced in other countries. “All you have to do is get the government out of the way,” he said.

Despite his grumbles, he said that he’s “blessed to be an American company, even with the trials and tribulations. It’s still the best place to be doing business.”

## Euro e-waste

■Continued from Page 1

WEEE are a serious problem, especially when they are disguised as legal shipments of used equipment to circumvent EU waste treatment rules. The new directive will oblige exporters to test whether equipment works or not, and provide documents on the nature of shipments that could be thought illegal.

Another expected improvement is the reduction of administrative burdens through harmonization of national registration and reporting requirements. Requirements by Member States’ registers for producers of e-waste will now be aligned more closely.

Currently only one third of electrical and electronic waste in the EU is separately collected within the documented system. The existing EU collection target is 4 kg of WEEE per capita, representing about 2 million tons per year, out of around 10 million tons of WEEE generated annually in the EU. By 2020, it is estimated that the volume of WEEE will increase to 12 million tons. The final target of the new directive, an ambitious 85 percent of all WEEE generated, will ensure that in 2020 around 10 million tons, or roughly 20 kg per capita, will be separately collected in the EU.

### Next Steps

By February 14, 2014 at the latest, Member States will have to amend their existing legislation on WEEE and align it with the new directive and the new targets. Consumers can then return small e-waste at large retail shops unless existing alternative schemes are shown to be at least as effective. From the date of national transposition onwards, a reversed burden of

proof will apply to shipments of used equipment which are suspected to be illegal waste shipments.

From 2016 onwards, Member States will be required to ensure that 45 percent of electrical and electronic equipment sold in each country is collected.

From 2018 onwards, the scope of the directive is widened from current categories to all electrical and electronic equipment.

From 2019 onwards, the collection target is raised to 65 percent of electrical and electronic equipment sold, or the alternative measure of 85 percent of WEEE generated.

Some Member States will be able to derogate from the new targets for a limited time, where this is justified by a lack of necessary infrastructure or low levels of consumption of electronic equipment. The Commission will use the powers given in the new directive to harmonize the frequency of reporting by producers to the national registers, and the format for registration and reporting. The Commission will review certain changes agreed with the new directive, for example as regards the scope, in order to identify any undesirable effects.

### Background

The existing WEEE Directive (Directive 2002/96/EC) has been in force since February 2003. It provides for the creation of collection schemes where consumers return their used e-waste free of charge. The purpose is to prevent harm to human health and the environment from hazardous substances contained in WEEE, and to increase the recycling and/or re-use of products and materials. In December 2008, the Commission proposed a recast WEEE Directive, and this has now been modified and adopted by the Parliament and the Council.



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# e-Cycle joins with Ford to raise funds for diabetes research

e-Cycle partnered with Ford Motor Company on a month-long initiative to raise funds for type 1 diabetes (T1D) research while recycling wireless phones.

As part of the program, thousands of employees at Ford buildings and plants across the U.S. collected their personal mobile phones for shipment to e-Cycle's facility in Hilliard, Ohio, where the data will be removed using security measures and the devices will be recycled to the highest environmental standards.

e-Cycle will cover the cost of shipping and donate \$1 to Juvenile

Diabetes Research Foundation (JDRF) for each device recycled. Ford sites will compete to see which one can collect the most phones and raise the most money.

T1D affects both Ford employees and their families. e-Cycle also has a personal tie to JDRF, as company founders Chris and Tonia Irion have a child with T1D. Tonia serves on the board of the Mid-Ohio Chapter of JDRF.

e-Cycle helps companies and organizations to achieve responsible, secure and cost-effective mobile recycling. The initiative with Ford is

the first employee-driven mobile buyback and recycling fundraiser undertaken by e-Cycle. Last year, e-Cycle raised \$19,000 for JDRF by making a donation for phones purchased or recycled over the course of one week.

Ford Motor Company created the Ford Global Action Team in 1998 to promote friendly competition among Ford sites to raise funds for JDRF. Since inception, Ford, along with business partners such as the UAW, BP, Mazda, ADESA and WPP, has contributed over \$39 million directly to JDRF to fund research.

e-Cycle believes the partnership with Ford is a model for how mobile buyback and recycling can serve as a foundation for corporate caring initiatives.

"With the help of e-Cycle, companies can promote data security and environmental responsibility while supporting causes that are important to their employees and customers," said e-Cycle CEO Chris Irion. "For charities, this kind of partnership provides an opportunity to enhance their revenue streams."

## E-scrap bill

■Continued from Page 1

metals, which is cheap but releases toxins to the atmosphere. The bill's passage would also encourage extraction of valuable materials of e-waste by sustainable means, supporters say. "The United States is the only developed country without a national law regulating the responsible recycling of electronic waste," Houghton said.

Support also comes from the Electronics TakeBack Coalition, a San Francisco-based group of environmental organizations that promotes green design and responsible recycling of electronics. "We are exporting recycling jobs with each container of e-waste we export to developing nations," said Barbara Kyle, national coordinator for the Electronics TakeBack Coalition.

Recyclers in developing nations face fewer controls on how they process e-waste than domestic recyclers, she agreed. The best way to keep them from processing e-waste improperly is also the best way to keep them from competing unfairly with U.S. recyclers, she said. "It's difficult for responsible recyclers, who have made investments in facilities, in expensive equipment and in personnel, to compete with exporting brokers, whose operations often only amount to a truck, a phone, a computer and a handful of people," Kyle said.

### Against the Ban

The other side of the argument is led by the Institute of Scrap Recycling Industries (ISRI), a 1,600-member Washington-based group that includes

recyclers of all sorts of materials, including over 400 electronics recyclers. Eric Harris, associate counsel and director of government and international affairs at ISRI, has been working on electronics recycling issues for several years. He said the ban keeps coming up because it has powerful backers, but that doesn't make it a good idea.

To start with, Harris said, we need to step back and look at the bigger picture. Scrap derived from electronics represents just 3 million tons of the 130 million tons of recyclable materials of all types recycled in the U.S. annually, according to a study ISRI did with International Data Corp. "The issue has gotten a lot of attention and people are really inflamed, but you have to keep it in perspective," he said.

Harris also said that the e-recycling industry in the U.S. is growing very rapidly without any export ban protections. Of the overall recycling industry dollar volume of \$100 billion, e-scrap accounts for about \$5 billion, he said. That is up from \$1 billion in 2002, he said. From 2002 to 2010, the number of people employed full-time at domestic e-recyclers grew from 6,000 to 45,000, and volumes went from 600,000 tons to more than 3 million tons.

"We're seeing a market doing exactly what we want it to do," Harris said. "That's showing growth in key areas, value, volume and full-time employees."

Harris also said that exporting of e-scrap isn't that big a problem. The same IDC study found that, contrary to ban supporters' estimates that 50 percent to 80 percent of electronics that reach recyclers is exported for processing, more

than 70 percent by weight is recycled into steel, aluminum, copper, precious metals and other commodities by domestic operators. A much bigger problem is landfilling of e-waste, he said, citing figures from the study that showed 30 percent of U.S. e-waste winds up in landfills.

Finally, Harris suggested that the broad prohibitions might violate existing trade agreements. Rather than an export ban, ISRI would prefer to see enforcement of existing rules, such as bans on landfilling of electronics that exist in many states, adding requirements that e-recyclers possess third-party certifications such as the R2/RIOS designation, and working with recyclers in developing countries to improve their practices and encouraging manufacturers to design products for recycling by removing hazardous substances and impediments.

If the law is, as anticipated, reintroduced during the next session of Con-

gress, Harris said by that time there may be additional studies, including one from the Environmental Protection Agency and the International Trade Commission that will shed more light on what is going on with e-waste and its export. Until then, he holds that action would be premature. "We think the data being relied on by the supporters of the bill is not accurate and one needs to be cautious about moving to an export ban policy with wobbly data," Harris said.

Meanwhile, Harris would like to see attention paid to what ISRI considers more pressing matters, such as improving the processing of cathode ray tubes from televisions and computer monitors. But proponents of the export ban legislation, like CAER's Houghton, still think it is the better way. "CAER will therefore continue recruiting additional support for the bill which will be re-introduced in the next Congress," Houghton said, "when we expect it to pass."

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Opponents of the export ban argue that domestic e-recycling is growing rapidly without export protections.

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