



American Recycler

NewsVoice of Salvage, Waste and Recycling

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National e-recycling strategy ignores export component

by MIKE BRESLIN

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The latest major development aimed at controlling electronic waste disposal occurred at a press event in late July in Austin, Texas. There, the United States Environmental Protection Agency (EPA) and major manufacturers of electronics signed an agreement to encourage certified recycling and support the best practices for end-of-life products.

To kick off the initiative, CEO's of Dell, Sprint and Sony and top officials from the Obama administration unveiled the "National Strategy for Electronics Stewardship." It aims to encourage electronics manufacturers to responsibly design, purchase, manage and recycle products to protect the environment and public health. By doing so, government and manufacturers want to promote electronics recycling through certified recyclers in order to recover more materials and create more new American jobs.

The new National Strategy also plans to promote the development of more efficient and sustainable products within the federal government. It directed federal

agencies to buy, reuse and recycle electronics responsibly, support recycling options for consumers and strengthen the United States role in international stewardship. The announcement also included the first voluntary commitments by the three manufacturers to foster environmentally sound management of used electronics.

"Through a strong federal partnership, and coordination with manufacturers, retailers, recyclers, State and local governments, and other stakeholders, the actions outlined here will help address the potential health and environmental problems caused by the mismanagement of discarded electronics," said Nancy Sutley, chair of the White House Council on Environmental Quality. "This strategy will encourage the recycling of these valuable resources and allow the United States to take advantage of the economic opportunities of remanufacturing and create jobs of the future here in America."

All of this is good, but there is something missing. No one is tracking data on e-waste exports from the United States or knows precisely how much is actually being exported, but government

and most everyone in recycling industry knows it is a big, lucrative and largely uncontrolled business.

From experience, Jim Puckett, executive director of Basel Action Network (BAN) and the e-Stewards certification program claims that as much as 80 percent of United States e-waste is going overseas. "You can go out into the recycling community and they will tell you it's about 80 percent of what is going into recyclers are being exported. Even though we don't have an exact quantification, we have a lot of anecdotal data which cannot be ignored." Other informed industry sources such as ISRI (Institute of Scrap Recycling Industries) estimates United States e-exports at 50 to 80 percent of total United States volume generated.

An e-Stewards certification, for example, helps assure integrity of recycling operations through an independent audit process conducted by accredited certification bodies. The standard is written for international use and operates under the framework of the Basel Ban, which prohibits the export of toxic e-waste to developing nations.



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The 1989 Basel Convention is a United Nations treaty designed to prevent dumping toxic waste on developing countries from more developed countries. In 1995, the Convention was amended to ban the export of hazardous wastes for any reason from rich, industrialized countries to developing countries. The United States is the only developed country that has failed to ratify the Basel Convention and the Basel Ban Amendment.

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Non-exporting of electronics is profitable



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US Shredder holds second annual "Castings for a Cure" campaign

The US Shredder and Castings Group began their second annual "Castings for a Cure" campaign. During the month of October, a portion of all the company's castings sales will be donated to the fight against breast cancer.

The donations will be contributed in honor of company president Bill Tigner's wife, Carla, a breast cancer survivor.

As in 2010, the company has produced an original "2011 Castings for a Cure" casting that will be given to each customer that contributes. A larger casting will be given to the company that contributes the largest donation.



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Major beverage producers support extended producer responsibility efforts

Several major United States beverage brands would support new laws making producers financially responsible for collection and recycling of post-consumer beverage packaging, according to a new report assessing corporate progress on recycling released by shareholder advocacy group As You Sow.

The new report, "Waste & Opportunity: U.S. Beverage Container Recycling Scorecard and Report," is As You Sow's third review of the beverage industry since 2006. Nestlé Waters North America received the highest ranking, followed closely by PepsiCo, The Coca-Cola Company, and Red Bull. All four received a letter grade of B-.

The report discusses new efforts by several companies to promote Extended Producer Responsibility (EPR) mandates to reverse lagging United States bottle and can recycling rates.

"The major development since our last survey has been the willingness of leading beverage companies to consider new legislative mandates requiring them

to take responsibility for their post-consumer packaging," said Conrad MacKerion, senior director of As You Sow's Corporate Social Responsibility Program.

"Many beverage and consumer packaged goods companies pay fees in other countries to finance recovery of their packaging. It's significant that companies are finally acknowledging the need to take responsibility in the United States as well."

Of the 224 billion beverage containers sold annually in the United States only 29 percent by weight are recycled; the rest are landfilled or incinerated, resulting in a huge waste of natural resources. In Europe and Canada, where EPR laws are in place, far higher levels of containers are recovered.

The report is based on original research and scores companies on key performance areas in packaging. Grades were based on information submitted by companies who responded to the survey. Those who did not respond were scored based on publicly available information.

"Several leading beverage companies continue to make steady incremental progress on source reduction but have not demonstrated strong commitments to using recycled content – a significant driver in reducing the environmental impact of packaging," said Amy Galland, Ph.D., As You Sow's research director and author of the study. Only PepsiCo maintains a consistent level of 10 percent recycled PET in all product lines sold in the United States since 2005. Nestlé Waters received the highest score on container recovery for having better recovery goals and stated tactical strategies for attaining them than its peers and it, along with PepsiCo and Red Bull, has stated industry-wide recovery goals.

Brewing companies were notably absent from the survey participants; Anheuser Busch refused to participate. The company received the second highest score in the 2008 edition of the report.

Several survey respondents said that in developing a recycling program, they

are most likely to support programs that set recycling fees paid by producers or importers that are included in the price of the product and administered by industry.

The Coca-Cola Company, historically opposed to container deposit systems, indicated it is now "neutral" on a deposit system administered by an independent third party, an apparent softening of its position.

Since As You Sow's 2008 "Waste & Opportunity" report, there have not been significant increases in recycled content:

- PepsiCo continues to have the highest use of rPET, 10 percent across all product lines, with a commitment to maintain and increase this percentage.

- Coca-Cola was unable to meet a commitment to use 10 percent rPET across its product lines in 2010.

- New Belgium Brewing Company currently uses 50 percent recycled glass, the highest reported, in its 22 oz bottles.

- Nestlé Waters uses 50 percent recycled PET in its re-source™ brand bottles, but lacks a company-wide commitment for reprocessed PET or rPET.

City Carton raises funds for Cancer Society

City Carton Recycling/Ockenfels Family Foundation held their annual golf outing that benefits the American Cancer Society's (ACS) children's programs, including their scholarship fund.

Outing proceeds are donated to 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, who pays 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 160 golfers, from across the United States and Canada teed off at the outing. Over 40 more friends, family, and City Carton Recycling team members assisted with the event.

Money is raised 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 International Paper, Waste Management- Recycle America, Machinex, IPS Balers, Pralumex, Truck Country, Paradigm Benefits, Point Builders LLC, Quincy Recycle Paper Inc., Core Vens Insurance, L & P Wire Tie Systems, Hills Bank and Trust, Kathy & Andy Ockenfels, Redhawk Transportation, Vecoplan.

Over \$870,000 has been raised and donated since the start of the Charity Golf Outing 17 years ago.

Football fans compete to divert waste

This fall, colleges across the country will compete to see which schools can reduce, reuse, and recycle the most waste as part of the United States Environmental Protection Agency's (EPA's) 2011 Game Day Challenge. Registration for the competition is now open, and champions will be crowned this December.

Any college or university in the United States with a football team can compete. The challenge is for schools to design a waste reduction plan for one 2011 regular season home football game and measure the results. Schools can collect common materials for recycling including paper, beverage containers, cardboard, and food to be donated and composted. The amount of waste generated and recycled will determine which school is the greenest.

Schools can win in several categories:

- Least amount of waste generated per attendee.
- Greatest greenhouse gas reductions from diverting waste.
- Highest recycling rate.
- Highest organics reduction rate.
- Highest combined recycling and composting rate.

A father was asked by his friend, "Has your son decided what he wants to be when he grows up?"

"Yes, he wants to be a garbage collector," replied the boy's father.

His friend thought for a moment and responded, "That's an unusual ambition for a child to have..."

"Well," said the boy's father, "he thinks that garbage collectors only work on Tuesdays!"

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

Last year, more than 75 participating schools kept 500,000 pounds of waste out of landfills.

For additional information, view this article on www.AmericanRecycler.com.



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E-recycling

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Because the United States has not signed up, it is illegal for 143 Basel countries to accept hazardous waste from the United States. However, the United States continues to export hazardous e-waste, in effect violating the laws of importing countries and dealing in illegal international trafficking of hazardous waste.

"We need to stem this tide right away, but unfortunately the National Strategy did not include that," Puckett noted. "The EPA and the General Accounting Office (GAO) had a chance at least to do something for federal agency generated waste. We asked them to do that because the federal government is the single largest generator of e-waste on the planet."

In a 2008 report, the GAO told the EPA it needed to better control harmful United States e-waste exports through more comprehensive regulation and stronger enforcement, yet little or nothing has been done. The report admonished EPA for poor enforcement of the cathode ray tube rule that requires companies to notify EPA before exporting them. In addition, GAO recommended EPA takes steps to ensure that the larger universe of potentially harmful elec-

tronic devices – such as computers, printers and cell phones are exported in a manner not harmful to health or the environment; expand hazardous waste regulations to cover other exported used electronics; submit a legislative package to Congress to ratify the Basel Convention; and work with Customs and Border Protection and other agencies to improve identification and tracking of exported used electronics.

Over the years some in Congress have attempted to do through legislation what the EPA has not addressed through regulation. The most recent proposal happened on June 23 when a bill to restrict exports of toxic e-waste to developing nations was introduced in the House (HR 2284) and in the Senate (S1270), with bi-partisan sponsorship. This proposed law would allow the export of tested, working used electronics, but prevent the exports of non-working equipment or parts containing certain toxic substances destined for developing countries.

"It takes laws to do things nationally for everyone's waste, but with a stroke of Obama's pen things can be put in place to responsibly recycle federal government electronic discards," said Puckett. "They had a chance to comply with international law, but did not. It's pretty glaring that they did not mention that it is illegal for most of this trade to take place. As we understand, that was pulled out by the U.S. Trade Representative's Office. Certain factions within the Obama Administration have control over issues like pro free trade at all costs. Instead, the EPA said we are going to spend \$2.5 million dollars on gathering information. So all of their desire to create more domestic green jobs in e-recycling and have better control over this is undermined by the fact that they haven't closed the escape hatch of exports. Until we do that there is no real incentive for anyone in this country to invest in high tech recycling and employ more people to do so."

On the other hand, we can't expect government to legislate and regulate every aspect of e-waste. Where there is a will, there is always a way to make a buck with unsavory disposal. Add the fact that most consumers and companies do not want to pay for certified domestic

recycling, thus the large volume of exports.

As Americans begin to realize that there is a cost associated for the responsible disposal of their electronic gadgets and dire environmental and health consequences for not doing so, more people will insist that their discards go to certified e-recyclers.

In addition to e-Stewards, which incorporate the ISO 14001 Environmental Management System standard, the other main e-waste certification options are R2 and RIOS (Responsible Recycling Practices and Recycling Industry Operating Standard).

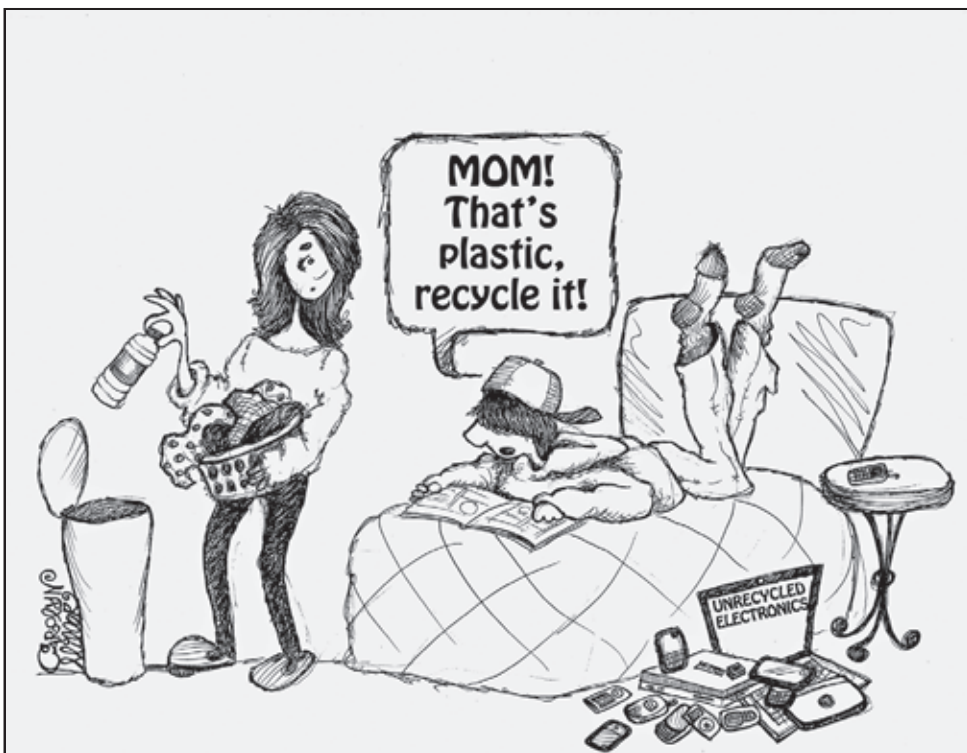
"Most serious recyclers know that they have to be certified, including really small ones," said Puckett. "Certification is far from complete saturation in North America, but moving there very rapidly. Right now I think we are at the peak where everybody is taking the plunge. The debate now is should I have one or both certifications. For political and promotional reasons many recycler are doing both – a lot more companies than I would have ever predicted."

John Knappenberger, president and CEO of the ANSI-ASQ National Accreditation Board (ANAB) commented on the growth of e-waste certifications, "Certifications have not picked up as fast as we would like, but as more and more municipalities have days where e-waste is collected; the word is going to go out to make sure the material is not going someplace where it is detrimental."

ANAB is the United States accreditation body for management systems which accredits certification bodies to audit and issue certificates of conformance to e-Stewards, R2, RIOS, ISO 14001, as well as other management system standards and requirements.

Knappenberger provided insight about certification bodies and certifications: "Anybody can say they are an electronics recycler, but how do you know where the material is going? It could wind up in a dump in Africa or China. We certify organizations to live up to a set of standards and verify the fact that certifiers are working on the same process in the same manner. The only thing we sell is confidence. When

See E-RECYLING, Page 6



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Recycling expands in Detroit area

Waste Management of Michigan will bring a single stream recycling facility (SSRF) to the Detroit metropolitan area. Single stream recycling collection programs are expanding in southeastern Michigan, and to meet customer demand, this planned facility would process the increasing volumes of recyclable material generated by Waste Management's commercial and residential customers across southeast Michigan.

A single stream facility eliminates the need for customers to separate recyclable materials prior to collection, since sophisticated material-handling equipment inside the SSRF handles the task. According to Tom Horton, vice president of public affairs for Waste Management's Mid-West Group, this makes it easier for customers to recycle. Experience has shown that recyclable material volumes increase an average of 20 to 30 percent after customers switch to single stream collection. Waste Management has 35 SSRF's in operation across the country.

Single stream recycling streamlines and simplifies the process of collecting and processing recyclable materials. In a single-stream system, residents and commercial customers place recyclables in a single container for pickup and no longer need to separate these materials in their homes or workplaces.

The Waste Management single stream facility will give the company processing control over a segment of its operations it has traditionally outsourced.

Call for garbage treasures reaches over 100 million

When taxi passengers were asked to 'Play with Garbage' for the sake of the environment this May, it was with the intent for people to discover the principles of "reduce, reuse and recycle" through Eco-Art's contest to make garbage into art.

Eco-Art China organized by Touchmedia and supported by the Shanghai Environmental Protection Bureau (SEPB), has reached 101,437,601 passengers in 12 weeks.

Neil Ducray, Touchmedia's managing director, and deputy party secretary, Jiang Nan from SEPB were present to announce the first prize work named "Eco-Violin" made of waste paper, plastic pipes and cans made by Monica Liaw from New Zealand. Her piece received the highest

votes out of the 198,356 public votes cast in two weeks.

Fung Yee Ngai from Hong Kong and Weslee Tsuei from Taiwan both collected second prize honors for their entries which used plastic bottles and waste paper. "Castle in the sky", the other second prize work, made of an old wood frame, rope, pulp filler and pigment, was turned from lifeless garbage into lively art by Wangjun from Shanghai.

Another Shanghai participant Yang Yan claimed the third prize spot with "Boys Love Art" pieced together from buttons, crayons, bottle caps, CDs, sticks, straw, grain, wipes, rice and foam. The two other third prize winners were Huangsiwei from Guangzhou and Duyi from Shanghai.



Over 40 volunteers assisted with the City Carton Recycling / Ockenfels Family Foundation 17th Annual Charity Golf Outing for Children with Cancer. The outing raised over \$111,000 for the American Cancer Society's Scholarship Program and Children's Cancer Connection.

Charges filed for trash illegally dumped in Ohio

Charges have been filed in the illegal dumping of \$316,000 worth of trash in the south end of Columbus, Ohio.

Richard Fintak of Richmond, Indiana has been indicted by the Franklin County Grand Jury on two counts of illegally operating a solid waste transfer station and one count of open dumping. The scene of the illegal trash transfer station is less than a quarter of a mile from a large apartment complex. It is estimated that 20,000 cubic yards of trash, construction and demolition debris, roofing, and other materials have been dumped at the site. Fintak was arrested in Indiana and has been returned to Columbus.

"Unlicensed trash haulers and the sites they use for illegal dumping can

breed health hazards for nearby residents and workers," said Solid Waste Authority of Central Ohio (SWACO) executive director Ron Mills. "The fines, disposal fees, and clean-up costs, as well as the potential jail time could make this a much more expensive proposition for the individual compared to following the law." It is estimated that it would cost \$316,000 to clean up and dispose of the trash from the Stimmel Road site.

Fintak faces up to 4 years in jail and as much as \$25,000 in fines on each count if he is convicted.

Defendants caught by SWACO's Environmental Crimes Task Force of Central Ohio paid out \$64,000 in fines and restitution in 2010. The 88 people con-

victed in Franklin County Environmental Court also spent a collective 10 years in jail. They spent 1,900 hours of service time cleaning up the messes they made.

Citizens of Franklin County have the power to "turn them in" when they see someone illegally dumping or littering. By calling or visiting www.itsacrime.org citizens can report environmental crimes.

The Environmental Crimes Task Force of Central Ohio is managed and funded by SWACO. It includes representatives of Franklin County Public Health, deputies from the Franklin County Sheriff's Office, a prosecutor from the Franklin County Prosecutor's Office and an employee of the Columbus Public Service Department.



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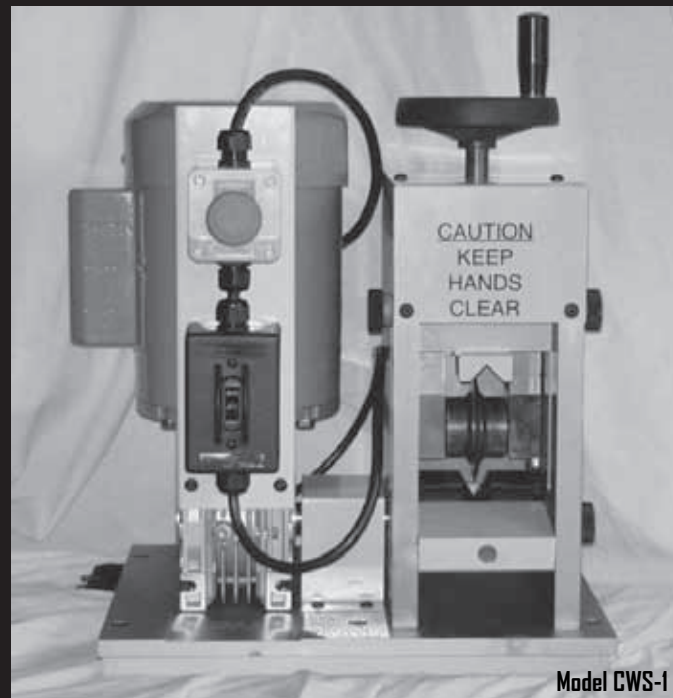
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Attachments generate revenue

by DOUG AMERMAN

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Attachment purchases seem simple... until your attachment doesn't perform as you expect. You invest a lot of money in equipment to get the job done and an incorrect attachment purchase will waste money. In today's economy, every ounce of productivity squeezed from your equipment provides more flexibility to profitably run your business. If attachment purchasers make their choices solely on price, critical issues that define the true attachment value might be ignored. Common poor choices include buying attachments that are the wrong size, too low quality for your application, or not compatible with your machine and application. Knowing the right facts and questions to ask can make the process easier.

"A lot of buyers make the mistake of trying to gain a certain productivity level without proper consideration of machine and attachment compatibility," said Jamie Adams, product manager for JRB Attachments, a Paladin Construction Group brand. "Most operators are smart and know what their machine can handle, but even the most experienced operators run into trouble when switching between multiple applications and attachments on a regular basis. It's important to know your application and machine and then discuss it with a dealer you trust to ensure your safety and achieve the best productivity for your money."

Some attachment purchasers prefer to buy through low cost avenues. While they often get burned due to a lack of serviceability and the low quality of these attachments, the biggest mistake they make is not taking advantage of the application knowledge of a qualified dealer.

Dealers know what will work on your equipment because they talk with customers every day, and often work directly with multiple manufacturers. And don't forget about the inevitable – all equipment, including attachments, sometimes requires service. Because every hour that your attachment isn't working for you counts, dealers that have strong service capabilities will move your projects along faster. If you go the low-cost route, you will often lose more money repairing a low-quality attachment than you saved on the purchase price. Consider using a reputable manufacturer and dealer in your purchasing decision for the lowest overall operating cost.

Make your attachment purchase easier by knowing these simple things beforehand:

•**Application** – Know your material density and/or job requirements. If possible, bring a small sample to the dealership. It's also important to know how you will be using the attachment. For example, do you need to work at specific heights or angles?

•**Cycle time** – Know the required speed to get the task done on time and the estimated amount of travel needed to get around the job site with the attachment.

•**General machine specs** – Know the equipment model numbers, tip load, lift/weight capacities and any other basic information for all machines the attachment will be working with. In addition, know the non-standard features on each machine (e.g., changes to hydraulics, tires, engine, etc.).

•**Hydraulic capabilities** – If your attachment requires hydraulics, make sure you know your machine's hydraulic flow (gpm) and pressure (psi) output capabilities.

In addition, make sure you understand your hydraulic plumbing, the number of outlets and its function capabilities. Not all machines have a third or fourth hydraulic function capability and yet a lot of attachments require this.

•**Mounting ability** – Dealers may assume you have a universal coupler, especially for skid steers and compact wheel loaders. If you have a quick coupler, know the brand and model, and bring the serial number of the coupler if available. When possible, bring a photo.

Quality and reputation are always important. Sometimes thinking ahead about what you might need in the future can save a lot of headache. Some questions to ask your dealer include:

1. Have you seen this brand of attachment succeed or fail in other customer applications? If so, what applications?

2. What repair capability do you have on this attachment and do you stock all replacement parts? If you don't carry the parts, how quickly can you get them?

3. Does the manufacturer of this attachment specialize in this application or is this just something they manufacture or merely buy to complete their line? Is this attachment and/or application one where they have a proven reputation for quality?

4. What would you estimate is the overall cost of ownership of this attachment?

Find an attachment manufacturer that has a proven history for quality in your application. Once you find a reputable manufacturer, you will have the confidence in the quality of its attachments when making future purchasing decisions. A broad product line is also important. The more a man-



ufacturer makes and specializes in, the better chance you have of finding a lifetime attachment brand partner for all of your attachment needs.

Many manufacturers and dealers compile guides that are sorted by brand, model or machine size, and/or attachment, so you can easily match the proper machine and attachments. Dealers are still the best source for help because they know other specialty information. For example, it's important when buying two or more attachments that will work together (e.g., thumbs and quick couplers) to buy them at the same time so compatibility isn't an issue. With the many brands and coupler systems available, finding the perfect match is easier this way. Remember...whether you're buying forks, buckets or any other type of attachment make sure they are designed for your specific industry or application.

Be sure to talk with your dealer about the best way to accomplish a job. Not all attachments are ideal for all equipment types.

When in doubt, using the rental avenue is a good way to decide the best attachment option for your business. Renting first can help you decide the ideal fit for your application.

Using the correct attachments wisely and effectively for your particular application is the first step toward completing your job safely, on-time and on-budget.

E-recycling

■Continued from Page 4

you see an accredited certification mark you can count on the fact that we have been there, looked at the process and the process is sound. That does not mean some rogue business could not foul it up, but the opportunity for error is so much lower with a certified e-recycler. Working inside a documented process gives confidence to anyone recycling with them that they are, by and large, what they represent themselves to be – a reputable recycler."

Recyclers become certified for various reasons Knappenberger said, "Like most of these certification programs they start out small. There is a vanguard of people who are zealots, the leaders, who believe in it, believe it's a competitive advantage, the right thing to do and want to demonstrate it. The next group is the fast-followers. They look at it and say if the big guys are doing it and getting some play out of it, they want to get on the bandwagon, too. Then there are the laggards who feel they have to do it to stay in the business. And there are others who are looking for an easy way to get a certificate so they can play, but are really not into it. Getting the certification and then working at it are difficult. You have to want it."

"It's not about what the government does; it's what the citizens want. In my mind that will drive it. If I want to find a way to dump my stuff in a landfill I will find a way to do it, even if I bury it in my backyard. If I really understand the value of recycling, not only from the standpoint of economics, but also the fact that I don't want my kids or grandkids living in the cesspools these things create, I want it cleaned up. And I don't want somebody surreptitiously taking a run out in the dark and dumping it somewhere," Knappenberger concluded.

No question that a genuine National Strategy for Electronics Stewardship should include some form government intervention to curtail the export of hazardous e-waste, but a strong educational component addressed to the general public is also needed. If consumers, companies and jurisdictions begin to insist that their old electronics follow paths to certified, domestic e-recyclers there are many benefits beyond the global spread of hazardous wastes.

Rather than dumping used devices on the developing world, the United States has an opportunity to develop new hi-tech systems and processes to recover commodities for both domestic reuses as well as for export. Maybe then those much needed American jobs will be created.

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Minneapolis businesses required to offer recycling

Most Minneapolis businesses already recycle, but a new ordinance that took effect September 1 requires all businesses in Minneapolis to offer recycling. This expands the recycling requirement that is already in place for all residential property. For businesses that don't already offer recycling, resources are available to help them set up a new system.

The ordinance puts in place the requirement that all nonresidential properties in Minneapolis that have garbage service will also have recycling service.

To help ensure that every property owner is able to offer recycling and comply with the new ordinance, Minneapolis is working with Hennepin County to provide information and technical assistance to those who need it.

Under the new ordinance, businesses are required to provide:

- Regular recycling collection (at least twice a month) for all materials generated on-site deemed recyclable in Minneapolis, including paper, cardboard, metal cans, plastic bottles, and glass bottles and jars.

- Recycling containers.

- Recycling collection and storage areas.

- Written recycling information and instructions sent to tenants or employees annually or posted.

- A written recycling plan.

The ordinance requires all commercial and business properties to offer recycling.

RailAmerica reports July 2011 monthly carloads

RailAmerica, Inc. reported that its total freight carloads for the month ended July 31, 2011 were 68,727, down 6.8 percent from 73,739 in July 2010. Lower coal shipments were the main reason for the decline. Excluding coal, carloads were down 1.2 percent.

RailAmerica had increased shipments in July 2011 in 5 out of 12 commodity groups compared to July 2010.

The largest increases were in chemicals and other. Chemicals were up due to higher shipments in the Northeast, Central and Southeast regions. Other was stronger due to increased shipments in the West, Midwest and Southeast regions. The largest declines were in coal, agricultural products and petroleum. Coal carloads primarily reflect decreased shipments in the Central region and source shifts at the Indiana Southern Railroad. Agricultural carloads were down primarily due to fewer shipments in the Midwest and Central regions. Petroleum volumes were down primarily due to decreased carloads in the West and Northeast regions.

July 2011 carloads include 434 carloads from the acquisition of three railroads in Alabama. On a "same railroad" basis, carloads declined 7.4 percent.



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WASTE

California Waste handlers to reduce harmful odors

The Environmental Protection Agency (EPA) signed an agreement with Western Environmental Inc. and Waste Reduction Technologies to eliminate potential noxious odors that could affect surrounding communities. Western Environmental Inc. and Waste Reduction Technologies are waste handling, recycling and composting facilities located on the Cabazon Reservation, near Mecca, California.

"This agreement includes binding commitments for the facilities to identify and eliminate the odors that have plagued Mecca," said Jared Blumenfeld, EPA's regional administrator for the Pacific Southwest. "Our efforts are part of a collaboration with the Cabazon Tribe to ensure that the facilities operate in a way that protects human health. We are also coordinating our actions with the State of California to respond to the concerns of the local residents."

The agreement supersedes EPA's initial May 2011 order issued to address the immediate public health concerns. The new order fine tunes the initial order, and adds the threat of financial penalties if the facilities do not comply. Western Environmental Inc. and Waste Reduction Technologies are required to:

- Complete installation of an odor-control misting system
- More thoroughly identify incoming wastes for potential odors
- Measure and record the levels of potential odor-causing substances

- Implement handling measures to control any additional odors if they occur

- Only accept incoming soil and other materials consistent with the approved work plan

EPA previously prohibited Western Environmental Inc. and Waste Reduction Technologies from accepting contaminated soils, biosolids and soy whey wastes for their strong potential to generate odors. Under EPA's initial order, Western Environmental Inc. and Waste Reduction Technologies were required to take multiple actions to mitigate odors, stabilize soil, and control particulate matter emissions (dust) at the facilities, including:

- Reducing the height and size of existing storage piles
- Increasing the frequency of water application (using spray trucks)
- Hydroseeding untreated soil piles with a polymer coating and grass mix
- Applying a polymer coating to treated soil storage piles
- Covering compost piles containing soy whey solids with soil

The work plan approved by the agreement requires Western Environmental Inc. and Waste Reduction Technologies to continue safely treating the soil that is already on-site until it is gone, and ensures new material does not cause harmful odors.

For additional information, view this article on www.AmericanRecycler.com.

Massachusetts waste facility agrees to settle alleged hazardous waste violations

In a settlement valued at more than \$1.7 million, Clean Harbors of Braintree, Inc. has agreed to pay a significant penalty and perform additional projects, to settle a complaint filed by the Department of Justice on behalf of EPA, regarding numerous violations of hazardous waste management and emergency planning laws at the company's Massachusetts facility.

Under the settlement, Clean Harbors will pay a \$650,000 penalty and will spend \$1,062,500 on a Supplemental Environmental Project (SEP) consisting of planting approximately 1,400 trees in low-income and historically-disadvantaged environmental justice areas in the City of Boston. It is expected that Clean Harbors will work with the City of Boston Parks and Recreation Department to implement the project over a two-year period.

Clean Harbors also will comply with an enhanced waste analysis plan that goes beyond what is currently required in its hazardous waste permit. This plan will help to ensure that the hazardous waste Clean Harbors receives and generates will be properly characterized and managed. Further, Clean Harbors has installed and will maintain a vapor collection system for its tanks that will collect and treat volatile organic compound (VOC) emissions, which contribute to smog.

"This settlement underscores how important it is that companies and individuals handling and managing hazardous wastes carefully adhere to the protective requirements EPA and the Massachusetts Department of Environmental Protection (MassDEP) have established for these substances," said Curt Spalding, regional administrator of EPA's New England office. "Complying with these standards helps reduce the possibility of a chemical release that could put the community and the environment at risk. I am also pleased that under this settlement a large number of

trees will be planted, which will improve air quality and the quality of life for Boston citizens."

EPA identified nearly 30 violations of both the Resource Conservation and Recovery Act (RCRA) and the Emergency Planning and Community Right-To-Know Act (EPCRA) at a site inspection of the Braintree Clean Harbors facility that took place in June 2007.

Those violations included inadequate waste characterization, the failure to properly maintain its hazardous waste tanks, inadequate secondary containment, and improper storage of incompatible wastes. At the time of the inspection, many of the company's hazardous waste tanks were deteriorating and in poor condition. EPA monitoring detected releases of VOC emissions from some of the tanks.

In July 2007, EPA issued an administrative order directing Clean Harbors to immediately address numerous conditions identified during the inspection that could have posed a danger to human health or the environment. Clean Harbors came into compliance soon after the 2007 order. Inspectors from MassDEP participated in the June 2007 inspection and provided support to EPA during the settlement process. In a separate consent order, MassDEP required Clean Harbors to replace all of the old storage tanks, as well as implement numerous other needed infrastructure upgrades at the facility. Clean Harbors has purchased and installed new hazardous waste tanks.

The facility performs hazardous materials management and disposal services including drummed and bulk waste processing and consolidation, transformer decommissioning, PCB storage and processing, blending of waste used as supplemental fuel by cement kilns or industrial furnaces, and pretreatment of waste to stabilize it before it is sent to permitted landfills.

Rumpke pilots CNG trash trucks

Rumpke trucks fueled by compressed natural gas (CNG) have hit the streets of Southwest Ohio as part of a \$3.1 million Clean Fuels Ohio project.

Rumpke of Ohio invested \$2.3 million and partnered with Clean Fuels Ohio to obtain an \$800,000 grant to complete the project which included 10 compressed natural gas (CNG) refuse collection trucks, and construction of a slow-fill, compressed natural gas fueling station and 16 fueling stands.

The switch to these trucks not only offers another use for landfill gas, but also offers a 21 to 26 percent reduction in greenhouse gases.

Using one of the world's largest landfill gas energy recovery systems, Rumpke

removes methane from Rumpke Sanitary Landfill and converts it into natural gas for up to 25,000 homes. Although, the gas is not directly piped to Rumpke's new CNG filling station, the station is one of the first hits on Duke Energy Corp.'s lines running from the landfill gas recovery system, making it possible for garbage trucks to run on the tri-state's garbage. In the future the gas lines will run directly from the landfill plants to the filling stations.

Throughout the pilot, Rumpke will monitor fuel economy, reliability, dealer support and driver and mechanic feedback to determine if this system offers a useable and efficient fuel alternative. In time, Rumpke will consider additional routes as opportunities become available.

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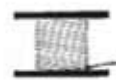
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WASTE

The battery bandwagon: how to thwart the flow of used car batteries to Mexico

by DIANE L. CULLO

diane@slabwatchdog.com

Each year, more than 520 million pounds of spent lead acid batteries (SLABs) generated in the United States are trucked across our southern border into Mexico. Sent by profit-hungry corporations, these batteries are destined for recycling facilities with sub-par emissions controls and lax worker safety protections.

SLAB exports have grown dramatically in recent years, due largely to the implementation of stricter environmental and worker safety regulations enacted by the Environmental Protection Agency and the Occupational Safety and Health Administration. Seeking to maximize profit, battery brokers and recyclers are taking advantage of Mexico's weaker environmental regulations, occupational safety standards and cheaper wages at the expense of the environment, worker safety and the health of local communities.

SLABs, or used car batteries, are made of lead, plastic and sulfuric acid – a toxic combination that can cause health problems and environmental harm when not recycled correctly. Sulfuric acid can seep into groundwater, while lead emissions can affect workers and settle in surrounding communities, causing developmental disabilities in children, loss of neurological functioning in adults and even coma or death in the most extreme cases.

In June 2011, a new study conducted by Occupational Knowledge International and Fronteras Comunes underscored the critical importance of recycling SLABs domestically. Titled, "Exporting Hazards", the report finds that ULABs, an acronym used interchangeably with SLABs, are being exported to and recycled in Mexico under less stringent standards, resulting in significantly higher occupational and environmental exposures. The report also highlights the fact that the problem is growing exponentially. In 2010, imports to Mexico increased 112 percent from the previous year.

In one instance, the report cites an unlicensed and unregulated battery recycling facility operating next to an open air market. Because the emissions from lead battery recycling plants in Mexico are nearly 20 times higher than in the United States, and lead emissions do not travel far, it is logical

to assume that families who buy and sell from this market are at greater risk of lead exposure.

Also, with the Permissible Exposure Limit for airborne lead three times higher in Mexican recycling facilities, workers at these plants are at greater risk from significant workplace exposure. While this data is alarming, it may not be the worst case scenario. The report also found that less than half of all approved Mexican recyclers report any lead emissions to authorities. The logical conclusion is that other recyclers do not report at all because their emissions far exceed permissible levels.

Given all of the apparent risks associated with battery recycling, why not ship them outside the States? The answer is simple: domestic recyclers can do it better and safer here, and maintain the green jobs so vital to our own economy.

Battery recycling in the United States is largely considered an environmental success story, with 95 to 97 percent of States-produced batteries domestically recycled every year. The United States also has enacted some of the world's strictest emissions standards, requiring battery recyclers to upgrade their technology to comply with new regulations. To safeguard worker health and minimize community impact, recycling facilities across the nation are implementing some of the world's most advanced recycling technology, which all but eliminates worker and community exposure.

It is also important to remember that every battery shipped across our borders impacts the number of jobs this industry can sustain. With a national unemployment rate above nine percent, every job counts in this recovering economy.

Recycling batteries here at home ensures that lead will be efficiently recycled; environmental impact will be minimized; worker and community health will be protected; and, American jobs will be maintained. As a nation, we have the knowledge, the state-of-the-art technology and the skilled work force to do the job. There is simply no excuse for dumping American waste on our international neighbors who lack the infrastructure, technology and regulatory oversight to dispose of the toxic materials safely and effectively.

—Diane L. Cullo is the Director of SLAB Watchdog

Pennsylvania approves waste volume increase for Cumberland County landfill

The Pennsylvania Department of Environmental Protection issued a permit to Community Refuse Services Inc. for an increase in average and maximum daily volume at its Cumberland County Landfill in Hopewell and North Newton townships.

The company's application proposed a 1,000 ton increase in the average daily volume and an increase in the maximum daily volume of 1,950 tons to 2,950 tons daily. Staff approved the company's harms/benefit analysis.

Included in the harms/benefit analysis were air quality impact tests, extensive traffic analysis, penalties for truck violations, a noise study, present value analysis, a comparison of vibration analysis and a study of impact fees given to nearby Newburg borough. The benefits include free waste disposal services of up to five 30 gallon bags for North Newton Township residents, free bulk waste cleanup days for the township and unlimited waste disposal services for Newburg.

PAPER

AF&PA paper reports for July

The American Forest & Paper Association released its July 2011 United States paper statistics reports. Containerboard production rose 4.6 percent when compared to June 2011, and the month over month average daily production was up 1.2 percent. The containerboard operating rate for July 2011 was down slightly, 0.6 point over July 2010 to 98.1 percent but it gained 1.2 points over June's operating rate.

Additional key findings include:

- Linerboard production posted a gain over last year.

- Medium also showed an increase over June 2011.

Total boxboard production decreased by 1.3 percent compared to July 2010, but increased 1.5 percent from last month.

- Unbleached kraft folding production decreased over the same month last year, but increased from last month.

- Total solid bleached boxboard and liner production decreased compared to July 2010, but increased from last month.

- The production of recycled folding decreased compared to July 2010, but increased when compared to last month.

- Inventory of solid bleached kraft paperboard increased in June.

Total United States industry consumption of recovered paper was 2.56 million tons, 7 percent lower than June of last year, and essentially the same as June 2011. The flat consumption coupled with a decrease in recovered paper receipts in July contributed to an industry-wide inventory reduction of over 6 percent. Continuing the trend of reduced consumption, the United States has now consumed 4 percent less recovered paper over the last 7 months than during the same period last year.

The United States exported 4 percent less recovered paper in June than in May. Despite a second straight month with a 4 percent drop, exports in 2011 continue to be higher than last year. Year-to-date exports of recovered paper are up 14 percent by volume and 18 percent by dollar value.

International Paper to buy Temple-Inland for over \$3 billion

International Paper (IP) has agreed to a \$3.7 billion deal to acquire Temple-Inland.

The merger agreement, expected to close in 2012, will bring together two very strong corrugated packaging businesses.

IP will assume \$600 million in Temple's debt. The deal averts a pro-

longed hostile bid process, which likely never would have succeeded given Temple's poison pill defense.

Temple makes corrugated packaging, which is used to make shipping boxes. When the deal closes, International Paper will be able to consolidate pricing power by controlling roughly 40 percent of the corrugated industry.

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PLASTICS

Greenstar builds recycling plant in Akron, Ohio

Greenstar Recycling plans to build a single-stream recycling facility in Akron, OH that will also serve as a hub for recycling and recovery activities in the area.

Greenstar, in partnership with the City of Akron, will invest up to \$8 million to build the facility in a converted 195,000 sq. ft. hangar at Akron Fulton International Airport.

The facility also will convert recovered plastic into synthetic crude oil, which will be handled by Cleveland-based Vadxx Energy LLC through a joint venture with Greenstar. Vadxx hopes to convert 12,000 tons of No. 3 through No. 7 plastics into 80,000 barrels of oil annually.

Rock-Tenn and JBI enter agreement

JB I has entered into an agreement with Rock-Tenn Company to convert mill by-product waste into fuel using JB I's Plastic2Oil™ technology.

Under the agreement, JB I has an exclusive 10 year license with a renewal option to build and operate Plastic2Oil processors at RockTenn facilities to process waste plastic at paper mills and material recovery facilities and to mine and process plastic from RockTenn's plastic-filled monofill sites.

ALTERNATIVE ENERGY

UOP breaks ground on facility to convert biomass to green transportation fuels

UOP LLC, a Honeywell company, has begun construction in Hawaii of a biofuels demonstration unit that will convert forest residuals, algae and other cellulosic biomass into green transportation fuels.

Backed by a \$25 million Department of Energy (DOE) award, the Honeywell UOP Integrated Biorefinery will upgrade biomass into high-quality renewable gasoline, diesel and jet fuel. The project is part of the DOE's efforts to help spur the creation of the domestic biofuel industry, drive domestic job creation and reduce dependence on foreign oil. The project will also support the Hawaii Clean Energy Initiative goal to achieve 70 percent clean energy by the year 2030.

Located at the Tesoro Corp. refinery in Kapolei, the Integrated Biorefin-

ery will be used to demonstrate viability of the technology, test the fuels produced and evaluate the environmental footprint of the fuels and the process technology. The project, which will generate more than 80 new jobs during construction, is scheduled to begin initial production in 2012. It is expected to be fully operational by 2014.

Once successfully proven in this demonstration unit, a commercial-scale facility using the same technology could produce as much as 50 million gallons of drop-in green transportation fuels per year, and could create as many as 800 new construction jobs and 1,000 new jobs in biomass production and refinery operations.

The demonstration unit will utilize the RTP® rapid thermal processing technology to rapidly convert biomass

into a pourable, liquid biofuel. This liquid biofuel will then be upgraded to green transportation fuels using hydroprocessing technology from Honeywell's UOP.

Honeywell's UOP offers technologies that convert natural oils and plant biomass to fuels. Since launching its efforts in renewable energy and chemicals in 2007, the company has commercialized the UOP/Eni Ecofining™ technology for the production of Honeywell Green Diesel™ and the UOP Renewable Jet process for the production of Honeywell Green Jet Fuel™.

In 2008, UOP partnered with Ensyn Corp. to form a joint venture business, Envergent Technologies LLC, to offer RTP technology and equipment.

Former waste disposal site planned to provide clean renewable energy in Hawaii

Forest City Hawaii and Hawaiian Electric Company have reached a power purchase agreement for up to one megawatt of solar photovoltaic power to be generated at the Kapolei Sustainable Energy Park in Kapolei, Oahu. Hoku Solar will design and install the project using more than 4,200 solar panels atop a concrete racking system.

The contract must be approved by the Hawaii Public Utilities Commission with input from Consumer Advocate. The goal is to be operational by the end of 2011, subject to regulatory approval.

The 12-acre site near the James Campbell Industrial Park was an industrial disposal site until 1986. Under an order from the Environmental Protection Agency (EPA), dumping was halted and the site sealed under a plastic liner and thick mound of asphalt. Because the cap must be undisturbed, the site has been

unusable until the James Campbell Company proposed it be used for a solar plant. PV panels can be installed directly on the surface, allowing "brightfields" to operate on sites not suitable for most other forms of development.

This innovative use for the site recognized the State's need for renewable energy and is consistent with the vision of sustainability for Kapolei and with the Campbell Company's history of stewardship.

Covanta moves forward with plans to build Ontario plant

Covanta Holding Corp. revealed that its subsidiary, Covanta Durham York Renewable Energy Limited Partnership, has been given the green light to begin constructing a new \$250 million, 140,000 ton-per-year waste-to-energy plant in Clarington, Ontario. Covanta will design, build and operate the project, on which design work has already begun.

Construction is scheduled to begin this fall and be completed by early 2014. Once operational, the mass-burn plant will be capable of producing 17.5 megawatts of clean energy – enough to power 10,000 homes. Steam generated by the facility could be utilized for district heating in an industrial park adjacent to the facility, heating the equivalent of 2,200 homes.

The Durham York energy-from-waste facility will serve as an integral component of the comprehensive solid waste management program of the Regions of Durham and York. The facil-

ity will only process municipally collected household waste left over after the Regions' aggressive diversion efforts, such as recycling and composting.

In April 2009, following an extensive competitive procurement process and evaluation review, the Durham Regional Council selected Covanta from a number of competing bids as the preferred vendor to build, operate and maintain an energy-from-waste facility.

The project received a certificate of approval from the Ontario Ministry of the Environment on June 28, 2011 that covers all operational requirements and conditions. The emissions control technology at the Durham York facility will establish it as one of the cleanest energy-from-waste facilities in the world. It is estimated that facility construction will create approximately 400 jobs over a three year period and once operational, is expected to employ approximately 40 skilled workers on a full-time basis.



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ALTERNATIVE ENERGY

Green energy facility to be built in South Carolina

Three leaders in the renewable energy industry are teaming up in an arrangement to construct and operate a state-of-the-art anaerobic digestion facility in Columbia, South Carolina. The 48,000 ton per year, 3.2 MW facility will begin construction under the supervision of W2E Organic Power and will process organic waste, turning it into green natural gas for electric power production. CIY-COR, a renewable energy and construction company, is a co-developer and financial partner. Eisenmann, an engineering and advanced technology firm, is providing the anaerobic digestion technology and engineering.

The W2E facility is a sustainable, renewable energy facility returning the nutrients from the organic waste back to the earth. Closing the loop, the soil amendment produced by the facility will be used for local agriculture as well as commercial and residential landscape applications. The organic waste consists of food, grease, waste produce, yard and several other sources which together provide a nutrient and energy rich mix from which the anaerobic process converts the waste into clean natural biogas.



New York landfill solar cover project now completed

Carlisle Energy Services, Inc. reported that its Spectro PowerCap™ Exposed Geomembrane Solar Cover system in Madison County, New York is completed. It is expected to be interconnected and fully operational within a month. Consulting engineer of record Barton & Loguidice submitted, and the New York Department of Environmental Conservation permitted, the installation as a 20 to 30 year long-term interim cover. The New York State Energy Research and Development Authority provided a grant in order to demonstrate this technology to other landfill owners in the state.

The eight-acre demonstration system features Carlisle's GeoTPO™ Geomembrane, with a south-facing 40kWp DC integrated solar photovoltaic array powered by Uni-Solar®. Carlisle's system is expected to offset nearly all of the power requirements of the Madison County ARC Recycling Facility located on site. Partners of record on the project included liner installer CETCO Contracting Services and electrical installer O'Connell Electric.

The Madison County landfill is the first municipal landfill in the country to apply this technology in a closure project. Future plans for the site, referred to as the Madison County Agriculture and Renewable Energy Park, include a one-megawatt landfill gas system that captures the heat generated by the turbine engines to dry lumber on site and heat the building. Other on-site green energy programs are being considered such as the possibility of adding a windmill, hydroponic greenhouses, and/or an additional solar array.

Carlisle's Spectro PowerCap is a dual-purpose landfill closure system that meets regulatory requirements as an alternative closure system and provides clean renewable energy. The system features Carlisle's three-ply, scrim-reinforced GeoTPO Geomembrane that serves as both the closure system and platform for integrated solar photovoltaics. GeoTPO was developed exclusively for Exposed Geomembrane Solar Cap or Exposed Geomembrane Cap applications as both a long-term and final landfill closure solution.

Ze-gen suspends Attleboro clean energy project development

Waste-to-energy company, Ze-gen, headquartered in Boston, Massachusetts, is suspending its \$15 million clean energy project planned for Attleboro, Massachusetts, due to falling natural gas prices and a "more prolonged local regulatory review process than anticipated."

Chief operating officer, David Robertson, said they would look to build

their first clean energy commercial plant at a different location.

"As a young technology company, our most precious resource is the time and creative attention of our small professional team. If the Attleboro Clean Energy Project was already up and running, we could withstand the economic drop in natural gas prices," he said.

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1997 SIERRA 700-TON S/L/B
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1995 LIEBHERR XR954HDW
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2005 COLMAR PORTABLE AUTO LOGGER BALER
 Portable auto logger/metal baler in good condition. 4,150 hours. New main cylinder, rebuilt grapple and rebuilt motor. \$195,000



1988 E-Z A+ CAR CRUSHER
 With air and automation in very nice condition. This machine has had very light use. \$65,000

METALS

Finished steel imports decline four percent

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the United States imported a total of 2,584,000 net tons (NT) of steel in July, including 2,060,000 NT of finished steel (down 5 percent and 4 percent, respectively, from June final data).

Finished steel import market share in July was an estimated 23 percent and is also 23 percent year-to-date (YTD).

Key finished steel products with significant import increases in July 2011 compared to June include hot rolled sheets (up 43 percent) and hot dipped galvanized sheet and strip (up 11 percent). Major products with significant YTD import increases vs. the same

period last year include reinforcing bar (up 40 percent), hot rolled bars (up 35 percent) and oil country goods (up 32 percent).

In July, the largest volumes of finished steel imports from offshore were from South Korea (299,000 NT, down 7 percent), China (155,000 NT, down 4 percent), Japan (138,000 NT, up 11 percent), Australia (104,000 NT, up 167 percent) and Germany (86,000 NT, up 39 percent).

For the first 7 months of 2011, the largest offshore suppliers have been South Korea (1,809,000 NT, up 67 percent), Japan (895,000 NT, up 20 percent) and China (716,000 NT, up 53 percent).

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

	JUL 2011	JUN 2011	2011 Annual (est)	2010 Annual	% Change 2011 Annual vs. 2010
SOUTH KOREA	299	323	3,101	2,041	51.9%
CHINA	155	161	1,228	858	43.1%
JAPAN	138	124	1,535	1,325	15.8%
AUSTRALIA	104	39	700	519	34.9%
GERMANY	86	62	978	879	11.3%
RUSSIA	80	105	533	325	64.0%
TAIWAN	67	75	712	536	32.8%
All Others	1,131	1,257	13,760	12,374	11.2%
TOTAL	2,060	2,146	22,547	18,857	19.6%

Tucson scrap dealers arrested

Four people who work at a Tucson, Arizona, scrap yard were arrested after police say they accepted stolen cars and other questionable materials, police said.

Marco Acuna, Hector Fuentes, Salvador Hernandez-Perez, and Cesar Tovar, employees at Sims Metal Management, were arrested. Sims is cooperating with police in the investigation.

The men are facing one felony count each of operating a chop shop.

Tucson police, along with federal and state law enforcement officials, raided Sims Metal Management, 1525 W. Miracle Mile, after a long-term investigation

where Tucson police say they sold 11 stolen cars, damaged safes, ATMs and wire in the past three months without the items being properly inspected by workers.

Authorities found stolen vehicles on the property during its investigation, Sgt. Matt Ronstadt said.

Three of the vehicles were reported stolen to the Tucson Police Department and the other two were reported as stolen to the Arizona Department of Public Safety, Ronstadt said. Tucson police are still investigating and more charges could be pending.

FeMET, StEEL and Premier 2011 scholarships awarded

The Association for Iron & Steel Technology (AIST) Foundation's and the American Iron and Steel Institute's (AISI) "Ferrous Metallurgy Education Today," or FeMET Initiative, and "Steel Engineering Education Link," or StEEL Initiative, aimed at attracting top talent to the North American steel industry, have awarded their scholarships for the 2011-2012 academic year.

Seven students from four United States and Canadian universities have been awarded FeMET scholarships, focusing on metallurgy and materials science. Similarly, three students from United States and Canadian universities were awarded StEEL scholarships, focusing on all engineering disciplines. In addition, one AISI/AIST Foundation Premier Scholarship was awarded.

The 11 winners for 2011-2012 are:

AISI/AIST Foundation Premier

•Jennifer S. DeHaven, metallurgical engineering, Missouri University of Science & Technology.

FeMET

•Allison M. Tengblad, metallurgical engineering, Missouri University of Science & Technology.

•John J. Andreiuk, materials engineering, University of Alberta.

•Danielle A. Hering, metallurgical and materials engineering, Colorado School of Mines.

•Andrew S. Etzold, metallurgical engineering, Missouri University of Science & Technology.

•Colin J. Welshymer, metallurgical engineering, Missouri University of Science & Technology.

•Jonathon N. Turner, metallurgical engineering, Missouri University of Science & Technology.

•Reese B. Thompson, metallurgy, Colorado School of Mines.

StEEL

•Alfred J. Alvares, industrial engineering, University of Michigan.

•Mattea W. Brown, mechanical engineering, Portland State University.

•Aaron F. Graves, Electrical Engineering, University of Alabama.

Scholarships of \$5,000 were awarded to each scholar for the school year that began this fall. Each scholarship included a paid internship at a North American steel company during the summer of 2012 and a second scholarship of \$5,000 in the student's fourth year, based on academic and internship performance.

This is the seventh year for FeMET and the sixth for the StEEL program.

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$375.00	\$365.00	\$395.00	\$437.00	\$490.00
#1 Bundles	per gross ton	369.00	362.00	379.00	432.00	453.00
Plate and Structural	per gross ton	420.00	385.00	490.00	410.00	448.00
#1 & 2 Mixed Steel	per gross ton	415.00	375.00	398.00	410.00	402.00
Shredder Bundles (tin)	per gross ton	350.00	320.00	320.00	350.00	330.00
Crushed Auto Bodies	per gross ton	350.00	320.00	320.00	350.00	345.00
Steel Turnings	per pound	250.00	195.00	217.00	275.00	290.00
#1 Copper	per pound	3.29	3.12	3.48	3.40	3.60
#2 Copper	per pound	3.12	2.99	3.32	3.10	3.49
Aluminum Cans	per pound	.80	.65	.76	.79	.80
Auto Radiators	per pound	1.85	2.05	2.18	2.00	2.39
Aluminum Core Radiators	per pound	.62	.62	.69	.80	.78
Heater Cores	per pound	1.40	1.65	1.75	1.69	1.94
Stainless Steel	per pound	.74	.69	.83	.80	.84

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

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METALS

Nucor reports higher profits

Nucor Corporation announced consolidated net earnings of \$299.8 million, or \$0.94 per diluted share, for the second quarter of 2011.

By comparison, Nucor reported net earnings of \$159.8 million, or \$0.50 per diluted share, in the first quarter of 2011 and net earnings of \$91.0 million, or \$0.29 per diluted share, in the second quarter of 2010. These increases in profits of 88 percent and 229 percent, respectively, were achieved despite the rebalancing by our customers of supply chain inventories, the impact on the manufacturing/auto sector of the devastating Japanese earthquake/tsunami and the lost sales, production and shipments from the weather-related power outages and historic river flooding in North America.

In the first half of 2011, Nucor reported consolidated net earnings of \$459.6 million, or \$1.44 per diluted share, compared with consolidated net earnings of \$122.0 million, or \$0.38 per diluted share, in the first half of last year.

Nucor's consolidated net sales increased 6 percent to \$5.11 billion in the second quarter of 2011 compared with \$4.83 billion in the first quarter of 2011 and increased 22 percent compared with \$4.20 billion in the second quarter of 2010. Average sales price per ton increased 13 percent from the first quarter of 2011 and increased 21 percent from the second quarter of 2010. Total tons shipped to outside customers were 5,598,000 tons in the second quarter of 2011, a decrease of 6 percent from the first quarter of 2011 and an increase of 1 percent over the second quarter of 2010. Total second quarter steel mill shipments increased 6 percent over the second quarter of 2010 and were down 6 percent from the first quarter of 2011. Second quarter downstream steel products shipments to outside customers increased 3 percent over the second quarter of 2010 and 12 percent over the first quarter of 2011.

The average scrap and scrap substitute cost per ton used in the second quarter of 2011 was \$444, an increase of 5 percent over \$424 in the first quarter of 2011 and an increase of 19 percent over \$373 in the second quarter of 2010. The average scrap and scrap substitute cost per ton used in the first half of 2011 was \$433, an increase of 26 percent over \$345 in the first half of 2010.

In June, Nucor's board of directors declared a cash dividend of \$0.3625 per share payable on August 11, 2011 to stockholders of record on June 30, 2011. This dividend is Nucor's 153rd consecutive quarterly cash dividend.

A millionaire, examining a prospective son-in-law, demanded, "Would you love my daughter just as much if she were poor?"

"Yes, of course, sir!"

"Then you can't have her. We don't want any idiots in this family."

Steel import permits down

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis data, the American Iron and Steel Institute reported that steel import permit applications for the month of August totaled 2,446,000 net tons (NT). This was a 3 percent decrease from the 2,520,000 permit tons recorded in July and a 5 percent decrease from the July preliminary imports total of 2,584,000 NT.

Import permit tonnage for finished steel in August was 1,841,000 NT, down 11 percent from the preliminary imports total of 2,060,000 NT in July. The estimated finished steel import market share in August was 21 percent.

In August, the largest finished steel import permit applications for offshore countries were for Korea (212,000 NT, down 29 percent from July), China (122,000 NT, down 21 percent), Japan (97,000 NT, down 30 percent), Germany (72,000 NT, down 16 percent) and India (68,000 NT, up 30 percent).

Finished steel import permits for major products that registered increases in August versus the July preliminary include reinforcing bars (up 79 percent), cold finished bars (up 21 percent), cut length plates (up 17 percent) and oil country goods (up 10 percent).

The Aluminum Association appoints new president

The Aluminum Association announced that Heidi Biggs Brock has been named its new president, effective October 1, 2011.

Brock will succeed Steve Larkin, who has served as the Association's president since 1998, and earlier this year announced his plan to retire at the end of 2011.

Most recently Brock served as vice president of Federal and International Affairs for the Weyerhaeuser Company. She currently serves as a member of the executive committee and board of both the National Institute of Building Sciences and the United States-Japan Leadership Program. Previously she was

Weyerhaeuser's e-business vice president. In that role, she served on the board of ForestExpress, the industry-backed electronic marketplace formed in 2000 by Weyerhaeuser, Georgia-Pacific and International Paper now known as Liaison Technologies. She also held roles in the company's government affairs group in Washington, D.C., working on public policy issues, and in Weyerhaeuser's strategic planning organization. Prior to Weyerhaeuser, Brock served as a legislative assistant to former United States Senators Daniel J. Evans and Slade Gorton, responsible for natural resource issues.

The American Steel Coalition is reactivated

The American Steel Coalition (ASC), a grassroots alliance of suppliers, customers and individuals who support the domestic steel industry, has announced its reactivation. Michael Romano, vice president, strategic accounts, Nalco Company, who will serve as chairman of the coalition, said the ASC will be "a strong voice in advocating for policies that strengthen the global competitiveness of the American steel industry and the overall United States manufacturing sector."

The announcement also served to recognize eight companies/individuals who joined with Romano in the American Steel Coalition's Founders Circle. The Founders Circle members are James R. Boughton, SES, LLC; Charles Connors, Sr., Magneco/Metrel Inc., Kevin Fenton, GrafTech International; Steve Harker, Kvaerner North American Construction; George Koenig, Berry Metals Company; Robert Kuball, Heraeus Electro-Nite Co. LLC; William Rackoff, ASKO, Inc.; and Joe Turner, Shaw Plant Services.

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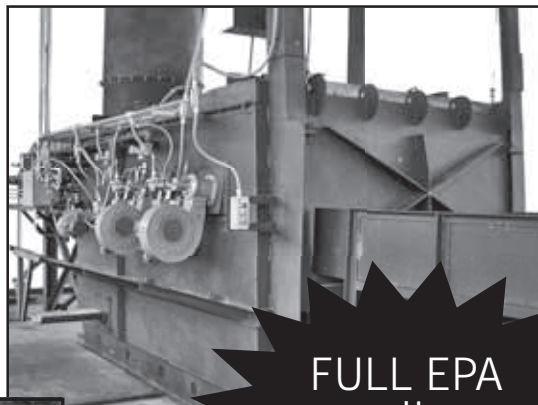
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AUTOMOTIVE

New fuel standards set for big vehicles

Fire trucks and concrete mixers, semis, heavy-duty pickups and all trucks in between will, for the first time, have to trim fuel consumption and emissions of heat-trapping gases under new efficiency standards announced recently by President Barack Obama.

The White House said the standards will save businesses billions of dollars in fuel costs, help reduce oil consumption and cut air pollution. The standards apply to vehicle model years 2014 to 2018.

Three categories of vehicles are affected. Big rigs or semis will have to slash fuel consumption and production of heat-trapping gases by up to 23 percent. Gasoline-powered heavy-duty pickups and vans will have to cut consumption by 10 percent, or by 15 percent if the vehicles run on diesel fuel.

The standards also prescribe a nine percent reduction in fuel consumption and greenhouse gas emissions for work trucks, which include everything from

fire trucks and concrete mixers to garbage trucks and buses.

In a statement, Obama said people who build, buy and drive medium and heavy-duty trucks support the new standards.

Obama had planned to unveil the standards at a trucking business in Virginia, a state crucial to his re-election hopes. But the trip was canceled without explanation and Obama met privately at the White House with industry officials.

The White House projected savings of 530 million barrels of oil and \$50 billion in fuel costs over the lives of the vehicles covered by the new standards, along with improved air quality and public health.

The administration released no miles-per-gallon equivalent for the new standards, saying that to do so would be confusing given the multiple categories of vehicles, the different types of vehicles in each category and the varying payloads that each one carries.

Officials did stress that the costs of making the trucks more fuel-efficient – ranging from hundreds of dollars to thousands of dollars per vehicle – will be recouped through reduced fuel costs over the lifetime of the vehicles.

It's the second round of fuel efficiency standards Obama has announced.

The president had also announced a deal with automakers to double overall fuel economy to 54.5 mpg by 2025, starting in model year 2017. Cars and light trucks now on the road average 27 mpg.

That followed a 2009 deal committing cars and trucks to averaging 35.5 mpg by model year 2016.

Thousands of flooded vehicles swamp the market

The Automotive Recyclers Association (ARA) released a statement urging Congress to review implementation and enforcement of the National Motor Vehicle Title Information System (NMVTIS).

As a result of Hurricane Irene and historic flooding across the eastern seaboard, vehicles in Connecticut, New Jersey, New York, North Carolina, Virginia and Vermont have been submerged in water. Now more than ever, it is essential that NMVTIS be fully implemented and the underlying statute enforced to help prevent the unknowing sale of these flood-damaged vehicles.

NMVTIS, a national electronic system that provides consumers with valuable information about a vehicle's condition and history, can play a crucial role in helping ensure that these flood-damaged vehicles are not sold to unsuspecting consumers in the used car market.

Such fraudulent and unsafe practices can only be stopped if all states participate fully in NMVTIS and all "individuals" and "entities" that are required to report to the system are held accountable.

C&D

Construction machinery exports up 48 percent

United States exports of construction equipment continued to grow in 2011 and ended the first half of the year up 48 percent compared to January-June of 2010. Total construction machinery exports at midyear were \$11 billion, according to the Association of Equipment Manufacturers (AEM). The off-road equipment manufacturing trade group consolidates United States Commerce Department data with other sources into member global trend reports.

"Exports remain a bright spot for the United States construction machinery manufacturing industry with continued weakness in the domestic marketplace. Pro-American export policies such as free trade agreements are proven to spur economic growth, which means manufacturers can provide more jobs for United States workers. That's a key message of our I Make America campaign, which underscores the significant role of manufacturing in United States job creation," stated Al Cervero, AEM vice president and construction sector leader.

•Exports of United States made construction machinery to South America grew 51 percent to total \$2.1 billion, and exports to Central America totaled \$933 million for a 24 percent gain. Among the top 10 countries buying equipment during the first half of 2011 were Brazil, Chile, Colombia, Mexico and Peru.

•Asia's export purchases increased 54 percent to \$1.5 billion, and Europe's 75 percent gain translated to \$1.4 billion.

•Australia/Oceania took delivery of 52 percent more American made construction machinery for a total \$1 billion, and exports to Canada increased 43 percent and totaled \$3.4 billion.

•United States exports to Africa grew 50 percent for a total \$636 million.

The top 10 export destinations for American made construction equipment during the first half of 2011 were:

- Canada – \$3.4 billion, up 43 percent.
- Australia – \$1 billion, up 61 percent.
- Mexico – \$742 million, up 35 percent.
- Chile – \$608 million, up 32 percent.
- China – \$480 million, up 98 percent.
- Brazil – \$480 million, up 28 percent.
- Colombia – \$419 million, up 121 percent.
- South Africa – \$325 million, up 88 percent.
- Russia – \$319 million, up 195 percent.
- Peru – \$290 million, up 72 percent.

A man came home to find his wife crying. "Your mother insulted me," she sobbed.

"My mother? How could she do that when she is on vacation on the other side of the world?" the man asked.

"This morning a letter addressed to you arrived. I opened it because I was curious."

"And?!"

"At the end of the letter, she wrote: P.S. Dear Diane, when you have finished reading this letter, don't forget to give it to my son."

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

How to choose (and court) a banker

This is the fifth in a continuing series, co-authored by Ron Sturgeon and Greg Morse, founder and president of Worthington National Bank

Most people won't start looking for a banker until they need money, which is a lot like looking for a spouse when you decide you're ready to start a family. Finding the banker who is right for you takes a lot more time and planning than most people realize, and it's something that should be done long before you think you're going to need one.

Banking isn't an event that happens spontaneously; rather, it's a process that needs to be approached carefully and strategically. The first, and probably most important, step is to create a relationship that opens the door for the banking process. Greg advises doing all of your banking in person so that you can get to know more of the people at the bank. Ron adds that this is impractical for many business owners, but you do have to know your banker and the staff. Make sure that when feasible, you don't use the drive through for deposits, go in. Stop in and say hello at least once monthly, perhaps while cashing a check.

But before you do that, you'll need to spend some time researching the banks that are accessible to you and finding out which ones best meet your needs.

Looking for the right banker

Greg: Banks, like doctors, specialize in different things. If your hand hurts, you're not going to go to a heart doctor. If you have a brain tumor, you see a neurosurgeon. If you're a business person, you need to find a business bank, not a consumer bank. For example, you don't want to go to a credit union if you're looking for a business loan, because credit unions specialize in consumers.

You also need to look at whether you need a big national chain or a local bank. If you have 100 locations, maybe it's important for you to have a chain that can serve you in a lot of locations. But if you have a single location, maybe you would be better off with a local bank. You need a

bank where you can go in, state your case and have the person across the table be able to make a decision.

Ron: Personally, I think that all banks are greedy. Any bank that you call up and say, "I want to finance a car" or "I want to finance some equipment or get a loan for my company" – they'll all say yes. I don't think everyone knows whether a bank is a consumer bank or a business bank, so how do people find out?

Greg: You should be able to find that on the bank's website. Most banks' websites will tell you what the bank does.

Ron: Once you've found the bank you want to do business with, how do you choose who to talk to? Anyone who walks in or calls the bank without knowing who they are going to meet is going to be paired with a "relationship banker." All that means is that he or she is going to be dealing with someone at a very low level, has a very low loan-lending limit and makes lending decisions based on very black-and-white numbers.

Greg: Walking in the door is exactly the wrong thing to do. A better way is to find out where someone else banks and get them to refer you.

Ron: Instead of just getting a referral, I would even ask that friend to call the bank as a sounding board and open the door a little bit. You know, maybe have this person call up and say, "I have a friend who's a car dealer, and he's looking for a loan, but I wasn't sure if you guys did loans for car dealers."

Greg: That's a good idea. I'm also big on choosing someone who has common interests with you. It might be hunting or fishing or golf; whatever it might be, it helps to have some common ground.

Next time, we will talk more about what kind of experience the right banker should have.

Remember, only you can make BUSINESS GREAT!

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

INTERNATIONAL

PepsiCo Canada releases 100 percent recycled PET plastic bottle

PepsiCo Beverages Canada has announced the introduction of the 7UP EcoGreen™ bottle; Canada's – and North America's – first soft drink bottle made from 100 percent recycled PET plastic.

The company has identified a way to couple existing technology with the best sources of recycled PET plastic and best-in-class processing techniques to produce a 100 percent recycled PET, food-grade bottle that meets all regulatory requirements. Creating a bottle made from 100 percent recycled plastic for soft drinks is more challenging than creating a bottle for non-carbonated beverages because of the stress on materials from carbonation pressure.

By introducing the 7UP EcoGreen bottle in Canada, PepsiCo Beverages Canada will reduce the amount of virgin plastic used by approximately six million pounds over the course of one year. Studies published by the Association for Post-Consumer Plastic Recyclers in 2010, estimate this reduced use of virgin plastic will lead to a reduction of more than 30 percent in greenhouse gas emissions and more than 55 percent in energy use, based on current 7UP production levels.

"After 3 years of research and development, we have cracked the code to commercially develop a soft drink bottle made from 100 percent recycled PET plastic," said Richard Glover, president of PepsiCo Beverages Canada. "Consumers want products and packaging that reflects their desire to protect the environment, and PepsiCo is committed to delivering on that."

The 7UP EcoGreen bottle was made available across all 7UP and Diet 7UP package sizes beginning in early August, and looks and feels like any other PET plastic soft drink bottle – consumers will not detect a difference in the packaging or taste of the soft drink.

The bottle will be produced in multiple PepsiCo manufacturing facilities across Canada. The company has invested \$1 million in production enhancements in its facilities, including resin handling systems and inspection systems. Although there will be an incremental cost to produce the 7UP EcoGreen bottle, PepsiCo Beverages Canada plans to price 7UP beverages on par with other soft drink brands.

PepsiCo Beverages Canada's long-term plan is to increase the use of bottles made from 100 percent recycled plastic. Currently, PepsiCo leads the industry by incorporating an average of 10 percent recycled PET in its primary soft drink bottles in Canada and the United States.

Some people ask the secret of our long marriage. We take time to go to a restaurant two times a week. A little candle-light, dinner, soft music and dancing. She goes Tuesdays, I go Fridays.

European aluminum beverage can recycling rate reaches 64 percent

The overall recycling rate for aluminum beverage cans in the European 27 including EFTA countries and Turkey increased by 1.2 percent to 64.3 percent in 2009. Despite the difficult economic situation the consumption of aluminum beverage cans in wider Europe remained at 34 billion units – it was possible to collect and recycle a further 400 million in addition to the 21 billion cans already recycled.

Traditionally beverage can recycling rates differ a lot from country to country. Most of the Nordic European countries have well-balanced deposit systems in place which generate stable and high recycling rates of around 90 percent.

Countries such as Belgium with well-managed pre-sorted packaging collection schemes also book excellent results. However, some of these schemes

need further improvement and should focus on a better sorting quality and include the collection of cans which are consumed out-of-home.

Successful local programs such as the UK Every Can Counts initiative can further help and are now being replicated in other countries. France and Austria joined with their own versions, called Chaque Canette Compte in French, and Jede Dose Zaehlt in German. The main purpose of these programs is to stimulate consumers at their workplace or while enjoying other outdoor activities such as a festival or a sport event to collect and deposit their cans in designated bins.

In general it is strongly recommended that EU Member States further improve their reporting of the recycled quantities of metal packaging, for example by including the quantities which

are collected outside regular schemes. Several countries in Central and Eastern Europe have collection schemes run by the private sector, using the high scrap value of aluminum as the main driver while an increasing number of countries also collect metals from the bottom ashes of the household waste incinerators. These fractions should be taken into account.

Based on the overall positive recycling trend over the past 20 years the aluminum industry together with the can manufacturers are aiming at an average European recycling rate of 75 percent in 2015 for all beverage cans and together with its partners in the Metal Packaging Europe (MPE) platform – an overall recycling rate for all metal packaging of 80 percent in 2020.

1.4 billion tons wasted through supply chains

The new UN Global Food Losses and Food Waste report has revealed that an annual 1.4 billion tons in consumables are wasted throughout the supply chain – from the fields to the consumer. These figures demonstrate the potential profit companies are throwing away due to inefficiencies in the supply chain. Poor demand forecasting and market anticipation may be the key factor in leaking supply chains.

Supply chains are becoming more complex with increased globalization. The unpredictability of demand in a volatile economic climate seems to be the main driver of this complexity. Out-sourcing has also lead to more lead time and higher cost, increasing the risk of wastage and loss of profit.

Economic up turns continue to drive demand for goods across sectors, and many organizations are feeling the strains of trying to meet the requirements. However, supply chain process optimization, consolidation and technology investments are proving to be viable solutions. More needs to be done to combat issues of wastage, long lead times, supplier management, cost reduction, environmental conservation and risk mitigation.

The Supply Chain and Logistics Africa Summit taking place on the 17 – 20 of October at the Sandton Sun in Johannesburg will be a forum that will give organizations the necessary strategies, tools and solutions in demand forecasting. It will examine strategic demand forecasting, data analysis, planning techniques, tools and technologies. Professionals will hear from a vast knowledge pool of supply chain and logistics experts across various industries and sectors, which will be invaluable for all professionals and decision makers in this area of focus.





Garb Oil & Power Corp builds e-waste recycling plant in Italy

Garb Oil & Power Corporation will form a joint venture (JV) partnership in Rome, Italy to build and operate an e-waste plant in the Viterbo province. The plant will have 25,000 metric tons input and produce output in copper, aluminum, alloys and plastic. Once operational, revenues are estimated in excess of

\$15,400,000. All raw materials will be sold to local entities for further processing. The plant will be locally funded and initial funds are available to start the project.

The JV will be 51 percent owned by Garb and 49 percent by a local group already present in the waste recycling business.

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BUSINESS BRIEFS

Nucor to pay 154th consecutive cash dividend

■ The board of directors of Nucor Corporation declared the regular quarterly cash dividend of \$0.3625 per share on Nucor's common stock.

This cash dividend is payable on November 11, 2011 to stockholders of record on September 30, 2011, and is Nucor's 154th consecutive quarterly cash dividend.

Richard Kent named buyer for Upstate Shredding

■ Scrap industry veteran Richard Kent has been hired as senior buyer of Scrap for Upstate Shredding – Ben Weitsman & Son. In addition to buying scrap metal, Kent will also broker scrap for the export market.

Kent joins a team of people who buy scrap metal for Upstate Shredding. Kent began working as the general manager for R. Freedman and Son of Green Island, New York. His career next took him to Rensselaer Iron & Steel, where he served as buyer. He then left to found his own company, Albany Metal Recycling. He will be based in Albany.

Waste Connections to acquire Alaska Waste

■ Waste Connections, Inc. has entered into agreements to acquire the operations of Alaska Pacific Environmental Services Anchorage, LLC and Alaska Green Waste Solutions, LLC. Closing is expected to occur in the first quarter of 2012.

Shoemaker named as Morbark's new president

■ Morbark, Inc. announced the appointment of James W. Shoemaker Jr. as president. Shoemaker replaces Lon Morey who will remain as the chairman of Morbark's board of directors.

Prior to his appointment as president, Shoemaker served as Morbark's vice president of operations and board member. He joined Morbark in 2003 as the manager of operations and has held numerous positions in the company. Prior to joining Morbark, Shoemaker spent 25 years with the Jervis B. Webb Co. managing operations, accounting and supply chain.

Young joins Vecoplan's engineering department

■ Vecoplan LLC has added Kevin Young to their engineering department. Young graduated from North Carolina A&T State University in May of 2011 earning a Bachelor of Science degree in mechanical engineering. While at A&T, Young was the team captain and project manager of Aggie Racing's Baja SAE entry.

After a three-month apprenticeship with Vecoplan he has been appointed to the position of product engineer. Young's position includes coordinating the design and development of turnkey shredding systems for the recycling sector. In order to ensure continuous quality control, he will also oversee the manufacture and implementation of his projects once the engineering phase has been completed.

Eriez plans expansions in various countries

■ Eriez will expand its operations in the United States, Canada, China and India to address the growing global demand for Eriez products.

In the United States, Eriez has purchased a 114,000 sq. ft. building that is approximately 15 miles from its Asbury Road World Headquarters facility in Erie, Pennsylvania. The new building will house the company's 5-Star Service™ Center and handle manufacturing of Eriez' equipment.

Eriez plans to finish some renovations to the space and move operations in by the end of 2011.

Eriez Minerals Flotation Group, headquartered in Vancouver, British Columbia, will be moving from its current location to a larger building nearby. Construction of the new building in Vancouver is currently underway.

Eriez-China will add another manufacturing operation in Tianjin to supplement their current Qinhuangdao plant.

Eriez-India is moving to a new factory facility located near Ambattur industrial estate in Chennai.

Atlas Copco opens Florida store for Dynapac line

■ Atlas Copco has opened the doors on its thirteenth store in Pompano Beach, Florida. The store was opened to support the large customer base already in southern Florida, especially for the Dynapac line.

Magnet Applications adds general manager

■ Magnet Applications, a subsidiary of Bunting Magnetics Company, has added Pete Lipetzky, PhD as the new general manager for their DuBois, Pennsylvania facility. Lipetzky will oversee the total manufacturing and sales operations for the DuBois plant and will report to Robert J. Bunting, the owner and chief executive officer for Bunting.

Dr. Lipetzky has a deep background within the industrial and educational sectors for metallurgy and other material science-based applications. He holds academic degrees which include a PhD in materials science and engineering-applied physics from Brown University. He also holds Master of Science degrees in both mechanical engineering and applied mathematics, also from Brown University. He also holds a master of business administration degree from the Katz Business Program at the University of Pittsburgh.

Previously, Dr. Lipetzky served as a Professor of Mechanical and Materials Engineering at Pennsylvania State University, Rensselaer Polytechnic Institute and the Technical University of Vienna. Prior to joining Magnet Applications, he served as the director of technology and interim general manager for ATI Powder Metals.

When one door closes another opens. But often we look so long and so regretfully upon the closed door that we fail to see the one that has opened for us.

—Helen Keller

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BUSINESS BRIEFS

Automotive Lift Institute chooses new engineer

■ Dale W. Soos has joined the Automotive Lift Institute (ALI) as a senior project engineer in the company's Cortland, New York headquarters.

In his position, Soos will be responsible for completing the development of the Lift Inspector Certification Program and assuring its successful implementation.

Soos holds a degree in mechanical engineering from Buffalo State College, is a member of the American Society of Safety Engineers and the American Society of Mechanical Engineers, and has been active in the field of commercial, industrial, and consumer product safety for more than 20 years.

Prior to joining ALI, key product safety positions held within Intertek Testing Services included the role of lead engineer for ALI's Lift Safety Certification Program, ETL's commercial garage equipment listing service, and paint spray booths. Most recently he served as staff engineer for large wind turbine generator evaluations, approvals, and certification.

Peña's Disposal hits new record in C&D recycling

■ When Peña's Disposal was awarded the contract to handle construction and demolition recycling for Tulare County, California, the recycling rate was 56 percent. In the first 3 months of the new contract under Peña's, the rate jumped to 82 percent.

The significant increase in recycling is a reflection of Peña's Disposal's aggressive approach to recycling, explained Anne Magaña, administrator of the Consolidated Waste Management Authority (CWMA).

CWMA is the agency responsible for providing required recycling reports to CalRecycle. This kind of improvement in recycling is noticed in Sacramento and "really helps us get closer to the state's overall rate for diverting waste from the waste stream and into recycling," Magaña explained.

Peña's Disposal was able to add 20 jobs for Tulare County residents, according to company vice-president Art Peña.

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Events Calendar

October 11th-14th

Automotive Recyclers Association Convention and Trade Show. Westin Charlotte and Charlotte Convention Center, Charlotte, North Carolina. 571-208-0428 • www.a-r-a.org

October 25th-26th

NERC Fall Conference 2011. Hotel Northampton, Northampton, Massachusetts. 802-254-3636 • www.nerc.org

October 27th-28th

5th Shingle Recycling Forum. Doubletree Hotel near the Galleria, Dallas, Texas. 303-779-7910 • www.shinglerecycling.org

October 31st - November 3rd

Landfill Symposium and Fall Training Center. Orlando, Florida. 800-467-9262 • www.swana.org

November 1st-3rd

Global Clean Energy Congress & Exhibition. Stampede Park, Calgary AB Canada www.globalcleanenergycongress.com

November 1st-3rd

Global Tire Expo: Green Session. The Cosmopolitan, Las Vegas, Nevada. 800-876-8372 • www.tireindustry.org

November 3rd-4th

5th National Conference on Rubber Modified Asphalt. Sheraton Austin Hotel, Austin, Texas. 202-682-4805 • www.stref.org

November 6th-8th

2011 Educational Conference on Litter Control and Solid Waste Management. Glade Springs Resort, West Virginia. 304-292-3801 • www.awvswa.com

November 9th-10th

Canadian Waste & Recycling Expo. Palais de congres de Montreal, Montreal, QC, Canada. 700-984-8016 • www.cwre.com

January 17th-20th, 2012

US Composting Council 20th Annual Composting Conference and Exposition. Renaissance Hotel, Austin, Texas. 631-737-4931 • www.compostingcouncil.org

January 26th-27th

MiaGreen Expo & Conference. Miami Beach Convention Center, Miami, Beach, Florida. 305-412-0000 • www.miagreen.com

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DUST CONTROL TECHNOLOGY RELEASES MIDGET NOZZLES

Dust Control Technology introduced a new nozzle design for its atomized misting equipment. The new Midget nozzles are well suited to indoor applications such as interior demolition, mining, transfer stations and recycling, in which the water volumes from standard nozzle configurations could be undesirable. Users report benefits such as improved worker safety and comfort, reduced moisture in end products and enhanced odor control.

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Available in belt widths from 20 to 60 inches, eddy current separator handles capacities up to 8 tons per hour.

BUSINESS BRIEFS

Henriksen named CEO and president of TOMRA

■ Tomra of North America, Inc., a wholly owned subsidiary of Tomra Systems ASA and provider of advanced recycling solutions, has appointed Harald Henriksen as the new president and CEO of Tomra of North America. Henriksen, who joined Tomra ASA in 2004, previously served as senior vice president of technology based in Norway.

In his previous role as global senior vice president of technology, Henriksen was responsible for the company's research and development, operations, production and project management. Together with the CEO, he also led the collection technology business unit. In another key role, he established and ran Tomra's sales, sourcing and production in China.

Prior to joining Tomra, Henriksen served as a vice president BU Tactical Radio at Kongsberg Defence Communications; as a vice president product management and vice president for research and development at Kongsberg Ericsson Communications; and as a project manager and department manager at NFT-Ericsson. Earlier in his career, he worked in engineering roles at Elektrisk Bureau, Norsk Data and NDRE.

Did you know that dolphins are so smart that within a few weeks of captivity, they can train people to stand on the very edge of the pool and throw them fish?

IESI LA acquires the Recycling Foundation Inc.

■ IESI LA Corporation, a subsidiary of Progressive Waste Solutions Ltd., has acquired The Recycling Foundation Inc., located in Baton Rouge, Louisiana and Lafayette, Louisiana.

The Recycling Foundation was founded in the early 1990s by the Cheatham family and the facility in Baton Rouge was the first Material Recovery Facility in the state of Louisiana.

The Recycling Foundation serves more than 500 businesses and holds curbside recycling contracts for East Baton Rouge Parish, Lafayette, Zachary, Youngsville, and Carencro. It processes approximately 5,000 tons of recyclables per month.

The material recovery facility located in Baton Rouge is a single stream facility with approximately 35,000 square feet. Because it employs a single-stream process, customers can combine paper, metals, cardboard and plastics in one large container.

Redfern joins management team at Atlas Copco

■ Andrew Redfern has been appointed to the position of capital equipment manager at Atlas Copco Construction Mining Technique USA LLC, based in Commerce City, Colorado, effective immediately.

In his new role, Redfern will report directly to Torbjorn Redaelli, president and general manager of Atlas Copco. He began his employment with Atlas in 2005.

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- 2001 MHL360 REBUILT** (rubber), 59' reach, hydraulic cab, gen-set and grapple.
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- 2005 835R** (crawler) 52' reach, hydraulic cab, gen-set and grapple.
- 2005 835M REBUILT** (rubber), 55' reach, hydraulic cab, gen-set and grapple.
- 2004 825M REBUILT** (rubber), 43' reach, hydraulic cab, gen-set and grapple.
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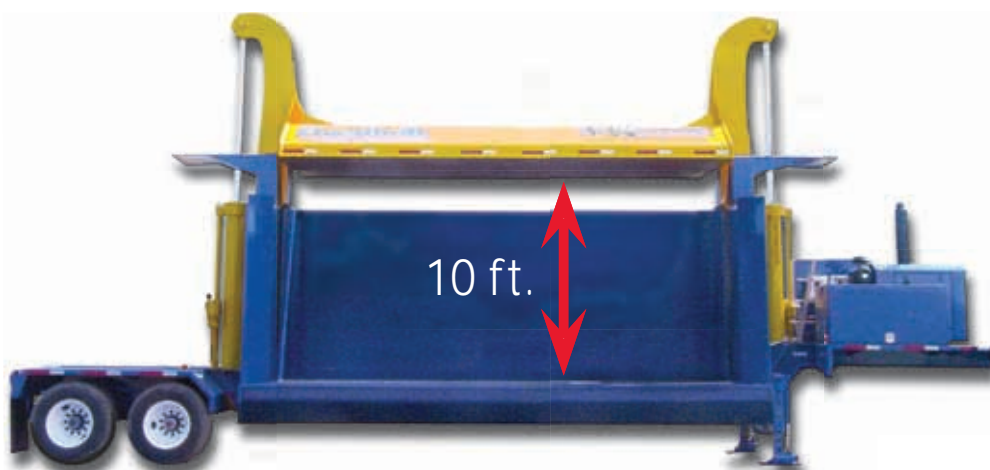
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Non-exporting of electronics proves profitable

by MIKE BRESLIN

mbreslin@americanrecycler.com

To date, the federal government has done little to curb the export of electronic wastes beyond the Environmental Protection Agency's (EPA) cathode ray tubes (CRT) rule that requires American companies to notify EPA before exporting them. While well intentioned, the rule is easily circumvented by declaring CRTs as used equipment for resale rather than as electronic waste.

Since CRT manufacture is rapidly being supplanted by new display technologies, and that the majority of CRT production will have vanished before EPA gets to any serious enforcement, the CRT disposal problem will largely solve itself. However, there is still a huge backlog of CRTs to be processed.

While the federal government is stalled on e-waste exports, private interests have stepped up to fill the legislative void. Whether motivated by purist environmental concerns or potential exposure to bad publicity, there is a small but growing trend among American consumers, businesses and institutions not wanting to be associated with irresponsible export of hazardous e-wastes.

The dilemma is that it is more costly to responsibly recycle e-waste domestically than it is to profitably export it for overseas processing by cheap labor and questionable practices.

As a result of state and local regulations, and public awareness, landfills have and are banning electronics – fun-



Obsolete electronics are first sorted at an All Green Electronics Recycling warehouse.

neling even greater volume to export markets. At the same time, the need for domestic plants capable of processing e-waste has increased substantially, yet the volume being processed by them today is estimated at only 15 to 20 percent of the total volume generated by the American economy.

Realizing that electronics is a large stream of solid waste with a budding demand for responsible domestic recycling, a new cadre of processors are emerging with business plans promising non-export, non-landfill, responsible disposal.

More than just an appealing marketing gimmick, responsible domestic disposal is also proving to be a profitable business model.

Case in point is All Green Electronics Recycling. Arman Sadeghi, company

founder and CEO, shows how media influence and entrepreneurial spirit combined to create a thriving new business that is helping control electronic waste in California.

After earning a neuroscience degree from the University of California at Berkeley, Sadeghi dropped out of Harvard Medical School to pursue a business idea. On November 17, 2008 he watched "The Electronic Wasteland" on CBS's 60 Minutes along with millions of Americans and saw the problem of unethical dumping of American e-waste in China. He also saw an opportunity to combine his knowledge of computers with his environmental interests.

Sadeghi created a business plan that promises customers that e-waste will not go into landfills, nor dumped on developing countries.

Between January and May of 2009, using a borrowed van and a rented storage unit, Sadeghi collected about 10,000 lbs. of electronic waste. By November, All Green had collected 280,000 lbs. and made its first profit. Six months later the company moved to a 50,000 sq. ft. facility in Tustin to service southern California, and opened a 30,000 sq. ft. operation in Sacramento to cover the northern part of the state. By the end of 2010, the company was collecting over 2,000,000 lbs. of e-waste per month and employed nearly 100 people.

"All Green did about \$5 million in sales in 2010, our second year in business, and we are on track to do about \$10 million for 2011," said Sadeghi. "While we do business nation wide, very soon we plan on opening processing

See NON-EXPORT, Page 7

Ohio man guilty of e-waste dumping responsible for cleanup

A Columbus, Ohio man will have to clean up the remnants of hundreds of smashed TV and computer screens in his south end neighborhood. Robert A. Holland pleaded guilty to one count of attempted illegal disposal of hazardous waste. The case was investigated by SWACO's Environmental Crimes Task Force of Central Ohio. Authorities became aware of the situation after a tip was called into the City of Columbus 311 Call Center.

"We are very concerned about this case," said SWACO executive director Ron Mills. "The average CRT tube from an old TV or computer screen contains two to seven pounds of lead. If lead has been released into the soil and air, it could pose some serious health risks. The site involved is in a heavily populated neighborhood."

Court records show that Holland is living in the detached garage of

799 East Stewart Avenue. Prosecutors said Holland was smashing the tubes with a hammer on a cement slab of an old garage at 803 East Stewart Avenue to harvest the recyclable parts for sale. The Ohio EPA and SWACO's Environmental Crimes Task Force will serve a search warrant at the sites to determine if any lead is present and if so how much. This will indicate whether the concrete pad must be removed and how many inches of soil

will need to be removed as well. The EPA is estimating the disposal costs to be approximately \$10,000. As part of his plea, Holland will be responsible for any clean up costs.

The charge against Holland is a first degree misdemeanor. He has been placed on probation for five years. If he doesn't comply with the terms of his probation he faces up to six months in jail.

See DUMPING, Page 2



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A Letter from the Editor

Readers,

I hope that as you read this on your cell phones or 4G enabled tablets that you'll stop and consider how you plan on disposing of your sleek piece of machinery when it has reached the end of its useful life. And while that decision may seem far off, with the rapid advances in the mobile industry, your brand new hardware is likely only a few months away from obsolescence.

While it may pain you to think about having to shell out hundreds of dollars for another new gadget, have you stopped to think about what you plan on doing with the outdated one?

There's been a great deal of news lately about new and exciting responsible electronics recycling standards, but there is also another option that hasn't been talked about much – selling or donating used electronics. There's a large market for gently used technology, which can make money for sellers and help out others in need.

The cell phone that cost \$200 with a service contract actually retails for closer to \$600. That means that people who have broken their phones and are not eligible for an upgrade may need to find an economical way to replace their broken unit. Rather than downgrading to a new phone with fewer features, many people will hit eBay and Craigslist to see if anyone has a used phone for sale at a price more affordable than retail.

As an ex-lifeguard, I replaced countless waterlogged phones by browsing used models online. And while there is a limit to what consumers will buy (no one is looking to buy your decade-old brick with an antenna), phones that are a year or two old are perfectly viable replacement options. The same holds true for other modestly used technologies like monitors, printers, digital music players and tablet computers.

So next time you want to upgrade, don't just throw away your old phone. There may be someone out there who needs your used device and is willing to pay you more than a few bucks for it. It's a great way to subsidize your new upgrade and help out someone in need. Of course, if it is a decades old piece of tech, by all means recycle it.

I hope you enjoy the beginning of the Fall season, and I'll see you next month.



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Video to show value of school's e-waste recycling

West Boylston Public Schools will be featured as part of a national video outreach campaign for FundingFactory, a fundraising-through-recycling program that collects used inkjet, laser cartridges, cell phones, laptops and small electronics, and pays schools for these items in cash and rewards.

To date, for the West Boylston Public School system, recycling with FundingFactory has translated to \$40,000 worth of laptops, projectors and digital cameras otherwise out of financial reach.

"We've been collecting and sending in used cartridges for years – the program is a no-brainer for any school district looking to increase fundraising. You recycle, they pay for shipping and you get the returns," said Steve Pellowe, technology coordinator, West Boylston Public Schools in Massachusetts.

A film crew and team of executives from FundingFactory visited the school in July to prepare the feature highlighting West Boylston as a Recycling Champion.

"West Boylston is really the model for community involvement," says Sean Michaels, FundingFactory president. "And it all tracks back to Steve. He's done an incredible job of promoting the program and letting them know the value to the school. As a result, they've been very successful."

For additional information, and a link to the video, view this article on www.AmericanRecycler.com.

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Xanthus to manage building of seven e-waste plants

Garb Oil & Power Corporation and ACG Consulting LLC have formed Xanthus LLC. Xanthus will act as the coordinating company for a joint venture (JV) responsible for managing and coordinating the growth and development of seven e-waste recycling plants throughout the United States. The company expects the building to be completed within the next three years.

It is estimated that each e-waste recycling facility will cost as much as \$15,000,000 to build depending on configuration and size of each recycling facility.

Garb will own 51 percent of Xanthus, and ACG Consulting will own 49 percent. Three e-waste recycling facilities are planned for operation during the 2013 calendar year with four additional

recycling facilities to come on line during the 2014 calendar year. It is expected that by end of 2015 the combined e-waste recycling facilities will contribute an estimated \$85,000,000 in revenues to the JV.

The EB-5 Program was authorized by the United States Congress under the Immigration and Nationality Act of 1990, as amended, with the intent to help stimulate the economy by creating new jobs. The source of the investment capital comes from foreign investors who wish to legally immigrate to the States by investing \$500,000 through an authorized EB-5 Regional Center in a commercial enterprise located within a Targeted Employment Area that will benefit the United States economy and create at least 10 full-time jobs.

RadioShack recycles batteries

RadioShack Corp. is the first retailer to collect five million pounds of rechargeable batteries since partnering with Call2Recycle®, a free rechargeable battery collection program in North America.

Through its partnership with Call2Recycle, RadioShack has surpassed five million pounds in collections of rechargeable batteries, ranking as the highest-volume retail partner for Call2Recycle and the first to reach this

milestone, as announced during RadioShack's recent Business Summit in Dallas.

As a true product stewardship program, Call2Recycle does not charge any fees to recycle rechargeable batteries. By joining forces with Call2Recycle, RadioShack customers can drop off rechargeable batteries for recycling at thousands of nearby RadioShack locations throughout the United States, for no charge.

Dumping

■Continued from Page 1

The conditions of Holland's probation include:

- 120 hours of community service on the SWACO litter crew;
- No treatment, storage, transportation or disposal of hazardous waste of any kind;
- No possession or disposal of CRT monitors, either broken or intact;
- Defendant must properly dispose of all non-hazardous solid

waste on his own property and the adjacent property by October 31, 2011;

•Defendant is responsible for the disposal of the hazardous waste on his own property and the adjacent property pursuant to the Ohio Revised Code and the regulations adopted there under; defendant shall follow the guidance given by Ohio EPA in disposing of the material, and will be responsible for the costs associated with the removal. The waste must be removed by October 31, 2011;

•Defendant shall have his own blood lead levels checked by the Columbus Health Department within 30 days;

•Defendant must have the blood lead levels checked of any children of which he has custody, also within 30 days;

•Defendant must allow Ohio EPA, its agents and other necessary personnel onto the property on which he lives to test for lead levels in the soil, air, water and interior of his dwelling, on a date of Ohio EPA's choosing;

•Defendant must pay court costs.

Men have a much better time of it than women. For one thing, they marry later. For another thing, they die earlier.

—H.L. Mencken



UPCOMING Section B editorial FOCUS TOPICS

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UK company brings lamp recycling system to the States

Balcan Engineering Ltd.'s waste lamp recycling system is now available in the United States. The system crushes whole lamps and gas-filled bulbs, as well as debris from broken lamps, then safely separates the components and cleanly collects them into drums.

There is no need for manual sorting, as Balcan's system can process a variety of bulbs at the same time – including compact fluorescent lamps and energy-saving bulbs, along with plastic-sleeved fluorescent tubes. This method results in a separated assortment of glass, mercury, and a mixture of plastic and metal materials. Alternatively, when only one type of bulb is processed, then all components will be separated. For example, fluorescent tubes are sorted independently into glass, aluminum and phosphor powder containing mercury.

As most lamps contain mercury, the machine uses negative pressure operation to separate it out and ensure the phosphor dust and vapor are correctly handled for disposal. This not only allows the other parts – glass, metals and plastics – to be recycled for further use, but also diminishes the negative impact that mercury has on the environment and human health.

The system only uses 10 to 20 kilowatts of energy, compared with up to 50



Balcan's system can process a variety of bulbs together – including compact fluorescent lamps and energy-saving bulbs, along with plastic-sleeved fluorescent tubes. This method results in a separated assortment of glass, mercury, and a mixture of plastic and metal materials.

kw by similar machinery, which helps reduce its carbon footprint. Balcan has also replaced its longest inclined conveyor with a vertical vibrating spiral elevator that takes up less horizontal space, so the overall size of the system is more compact. An additional benefit of these spiral elevators is that they are made of steel, which will not only overcome the traditional wear and tear of

conventional fabric-belted conveyors, but will also convey materials up the spiral in the direction of the vibration, so that the aggressive nature of the glass debris should take many more years to wear the metal away.

With one model already in use in Massachusetts, and five more to be installed in various states by the end of the year, three models of Balcan's

waste lamp recycling system are available in the United States:

In 2006 the company won the Queen's Award for Enterprise – the UK's highest accolade for business success – for its innovative design and efficient, economical, and environmental processing. For more information, please visit www.cfl-lamprecycling.com.

WM LampTracker agrees to pay penalty for waste violations

Waste Management LampTracker, Inc., has agreed to pay a \$118,800 civil penalty to the United States to settle a series of violations of its Missouri Hazardous Waste Permit and the federal Resource Conservation and Recovery Act (RCRA) at its permitted Kaiser, Missouri, facility and a nearby unpermitted materials staging area.

Waste Management LampTracker, which collects and recycles universal waste lamps, mercury containing equipment and batteries at its facility in Kaiser, Missouri, was inspected by EPA Region 7 in August 2010, according to an administrative consent agreement filed by the Agency in Kansas City, Kansas. EPA inspected the company's main Kaiser facility at 415 Kaiser Industrial Drive, and an

unpermitted materials staging area located less than a mile away.

After the inspection, EPA issued a notice of violation to the company, citing multiple issues with inadequate waste container management, inadequate facility management, and failures to comply with universal waste requirements.

Specific violations included failure to maintain adequate aisle space in storage areas, failures to close and label hazardous waste containers, failure to close universal waste containers, failure to sample crushed glass to test for mercury levels, and issues with employee training documentation, job description documentation, and the facility's emergency contingency plan.

By agreeing to the settlement with EPA, Waste Management LampTracker has certified that its Kaiser opera-

tions are now in compliance with all requirements of RCRA and its Missouri Hazardous Waste Permit.

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EQUIPMENT SPOTLIGHT

Conveyors

by MARY M. COX

maryc@americanrecycler.com

The growing awareness of the mismanagement of hazardous e-scrap processing in third world countries, as well as other factors, has resulted in an increased demand for safe processing of e-scrap in the United States. Part of that process typically involves conveyor machines during the sorting and recycling of e-scrap.

Gary St. Charles is assistant general manager at Endura-Veyor Inc. (EVI). The company focuses on loose and scrap material handling conveyor designs. "Due to some potentially hazardous material within e-scrap, I think we'll see an increase in related government agency policies. Europe has been a leader in controlling the undesirable exporting and processing of e-scrap, and I believe that a majority of e-scrap processing equipment purchased in the United States is imported from European manufacturers. As electronic device usage continues to increase, our country seems to focus more than ever on keeping e-scrap out of landfills and recycling materials instead of producing new," St. Charles said.



Mayfran International

EVI has aided their clients in processing over 100 million pounds of electronic waste in 2010 and they expect to double that amount this year.

St. Charles explained, "Endura-veyor's 600 and 300 conveyor products are often the best fit for the job. The conveyor configuration can be matched to the system layout, meeting the specific design needs of sorting, shredding, chopping, granulating and mechanical separation processes that are common in e-scrap processing. If a conveyor system isn't properly sized for a given process, it may result in added cost due to conveyor failure and lost production,

repairs or a compromise in the optimal layout of the processing area."

EVI's hinged steel belt conveyor, available in 2.5", 4", 6" and 9" sizes, "is rugged, dependable and ideal for handling typical e-scrap items such as cell phones, refrigerators, CRT cullet and 'meatballs' or other scrap metal handling processes. Our Sliderbed Belt Conveyors are designed specifically for handling various types of loose scrap, and offer maximum product containment and ease of maintenance," said St. Charles.

Traditional horizontal and inclined designs are available, as well as C&Z styles, which transition from horizontal to incline using a single belt. The conveyors can be designed for use in conjunction with all types of overhead separating magnets and metal detection equipment.

Mayfran International is a manufacturer of conveyors and recycling equipment components. Their full line of durable hinged steel belt conveyors and systems handle metal scrap, paper and municipal solid waste. "We've been known as the standard for baler feed conveyors for over 75 years. Mayfran light-duty conveyors are for lighter materials like paper for baler feed, and we also offer extreme-duty, reinforced conveyors, which handle heavier materials. Heavier-duty conveyors offer reinforced belts, an electronic-drive soft-start for repeated start-stop baler feed operation, an open-frame, reinforced construction and an anti-rollback device, which allows for heavier loading and variable speed drives for various commodities," said Bernard Goldstein, chief engineer.

He stated, "Our clients require conveyors that take abuse with minimal maintenance, and they need conveyors and systems that are easy to install on-site. We believe we provide these features in our products. We also strive to reduce overall maintenance requirements and provide custom conveyors at standard conveyor lead times, all while meeting the demands for lower up-front costs in today's tough economy. We can also include system flexibility whenever



Remcon Equipment, Inc.

needed, for constantly changing material streams."

Goldstein said that automation is the newest trend in recycling systems, allowing many manual labor tasks to be replaced, but Mayfran has also built MRF systems designed for teams of sorters to pick various grades of plastics, glass, etc. The conveyors handle a mixed stream of materials that feed trommels, shredders, shakers, electro magnets and other sorting equipment. For electronic controls and monitoring of a conveyor, Mayfran recommends and installs remote interface capability, which allows offsite access to system controls.

Remcon Equipment offers complete conveyor systems as well as components for use in an existing system, such as individual conveyors, material separation equipment (screens, magnets) and storage structures (silos, self-emptying bins). Most features of the equipment can be customized to fit customer needs regarding factors such as belt speed and type, conveyor width and length, hopper and chute designs, etc.

"Because we customize our conveyors to each customer's specific application, we can incorporate design features that keep material leakage to a minimum," said Dennis Lux, president. He added, "We also keep the maintenance crew in mind by designing conveyors for cleanliness, safety and for easy access to maintenance areas. Another service we provide is conveyor belt replacement. A good conveyor will be built to last longer than needed, but belts eventually wear out or become damaged beyond repair, no matter what the belt type or the material that is being processed. We also provide customized replacement belts and installation for other brands of conveyors."

See SPOTLIGHT, Page 6

Manufacturer List

Endura-Veyor Inc.

Mike Nowak
800-356-1593
www.endura-veyor.com

Hustler Conveyor Company

Dave Guyton
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www.hustler-conveyor.com

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Bernard Goldstein
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www.metso.com

Midwest Equipment Sales

Jim Ashmus
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Remcon Equipment, Inc.

Dennis Lux
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Doug Smalis
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Unplugged e-recycling now available in British Columbia

On October 1, 2011, British Columbians were first able to recycle their used or broken small appliances at over 100 drop-off locations through a new program called Unplugged, the Small Appliance Recycling Program.

Unplugged will divert approximately two million small appliances previously destined for the landfill, helping to reduce pollution, save energy and protect the environment.

A Closer Look

by Donna Currie

R2 Stewardship Stacy Renteria-Vigil • 303-781-1089

While R2 Stewardship has been in business for just a year, the company history is a little longer – seven years, according to Stacy Renteria-Vigil, the operations manager for the company.

Seven years ago, the company operated under another name in Sheridan, Colorado in partnership with another business. When the partnership was dissolved, Stacy and Henry Renteria-Vigil opened R2 in Denver. On opening day, there were three employees; after just a year, there are 17. The company is also working on opening a new drop-off facility in nearby Littleton, Colorado.

The “R2” part of the name refers to the company’s goal of responsible recycling of computers and other electronics. There are different ways of accomplishing that, Renteria-Vigil explained, including repair for resale, and dismantlement for recycling.

Repaired computers are sold to consumers “and we also donate to schools,” Renteria-Vigil said. They sell computers one at a time, or they sell in quantities to larger customers. “I believe that our old technologies can be other people’s new technology,” she said.

Computers and other electronics that can’t be repaired are completely disassembled in the “breakdown department” where components are sorted into different categories for recycling, with plastics, metal, wire, and circuit boards heading to different companies. Renteria-Vigil said that the circuit boards were the most valuable, but everything was recycled, and “we try to keep it within Colorado, when possible.”

The material that comes into R2 arrives from a number of different sources ranging from commercial and government accounts to individual customers who bring in just a piece or two.

Possibly the most visible part of the business is the recycling events that are held all over the area. Some are organized by local towns, while others are run by organizations. At a recent charity-sponsored event, R2 not only accepted electronic scrap at no charge, they also gave away 10 desktop computers to kids who attended.

At quarterly recycling events sponsored by a local town, R2 is the electronics recycler. At those events, residents drop off materials that aren’t acceptable for the usual trash or recycling pickup, and R2 fills two or three 50’ trailers with electronics.

After the events, “we hold onto everything for at least 30 days,” Renteria-Vigil said. They instituted that policy after someone mistakenly recycled a computer that still had needed data on it. They were able to find the computer, but it was such a close call that the company decided it would be better to wait at least 30 days, just in case.

On the other hand, if customers want to make sure data is destroyed, R2 can do that for a small charge. “We customize to our customers’ needs,” Renteria-Vigil said.

One thing she was adamant about was that none of the material R2 processes ever left the country. Not only does R2 not ship overseas, but they make sure that the people they sell to do not ship out of the country.

But that’s not all. “We make sure they all are certified in the same way we are,” she said.

While some companies gnash their teeth about government regulations, R2 sees them as an opportunity. “It’s only bettering us,” Renteria-Vigil said. “Every day is a learning experience.”

Right now, the company is working towards some new certifications. Part of the process is working with auditors who make sure the company is complying with all local, state and federal regulations. Much of it involves paperwork, and Renteria-Vigil said that the auditors are very good about working with them to make sure “all the i’s are dotted and the t’s are crossed.”

The new certifications are expensive, Renteria-Vigil said, and they can take up to six months to complete. “We’re hoping to be done in November,” she said.

R2 will be just the fourth recycler in Colorado to have these certifications. Renteria-Vigil said having the certifications would put R2 ahead of their competition if the certifications ever become mandatory. But for now, she said the certifications are mainly for “bragging rights.”

But it’s not all about business. Renteria-Vigil said, “It’s not even like work – it’s like a big old family away from home.” Meanwhile, she has become more conscious of recycling and has been teaching her four sons to “go green” at home. “We believe in what we’re doing,” she said.

Introduced by the Canadian Electrical Stewardship Association (CESA), Unplugged is the first small appliance recycling program of its kind in Canada and the only government-approved small appliance recycling program in British Columbia (B.C.) The program will accept more than 120 small appliances for recycling – ranging from toasters and electric toothbrushes to countertop microwaves and vacuum cleaners.

Unplugged will help save energy by recycling materials such as aluminum – which takes 95 percent less energy to recycle than it does to make it from raw materials – or steel, which uses 74 percent less energy.

According to Larry Moore, president of CESA, “We know British Columbians are ready for a program like Unplugged. In fact, a recent survey found almost all (97 percent) would consider participating in a small appliance recycling program, while nearly 90 percent would encourage others to take part.”

After an appliance is brought to a drop-off location, it is transported to processors in Western Canada and separated into different materials which are

then recycled. Metals will be smelted down and recycled into other metal products, while plastics and glass will be sorted and sold or reused in various manufacturing processes.

CESA has partnered with B.C.-based Product Care Association to set up and operate Unplugged throughout the province.

As a non-profit program, Unplugged will be fully funded by a recycling fee applied to new products brought into B.C. by small appliance manufacturers and retailers. The recycling fee covers all program costs, including collection, transportation and recycling, and may be included in a product’s price or displayed as a separate charge at check-out. The program will operate on a cost-recovery basis and all fees collected will stay within the program.

Accepted electrical products are divided into 14 different categories such as: kitchen countertop, time measurement, weight measurement, garment care, air treatment, floor cleaning, personal care and designated very small items (e.g., air fresheners) with a corresponding fee attached to each.

eRecycleNY launch helps with waste law compliance

To help businesses in New York State comply with a new law mandating responsible electronic waste recycling, eRecycle-NY has launched its New York office, offering a cost-effective, Environmental Protection Agency-compliant option for businesses needing to dispose of electronic items.

Beginning January 1, 2012, the New York State Department of Environmental Conservation: Electronic Equipment

Reuse and Recycling Act will require all businesses in the state to recycle their e-waste – including old or obsolete computers, hard drives, monitors and other electronic devices – at a certified electronics recycling facility. Failure to comply could mean fines or other penalties. In passing this law, New York joins 25 other states in a legislative attempt to keep hazardous chemicals out of the air and water.

Spotlight

■Continued from Page 4

Lux said that Remcon products are used primarily by customers for sorting recyclable materials. “Most of the units we manufacture are slider bed, drag or roller chain conveyors. Baler feed and sort line types are also popular. Many large recycling companies install huge, multi-million dollar systems to process incredible volumes of material, but there are also many small operations out there that need simple, easy-to-operate machinery. We can design whatever is needed. Instead of just offering a few standard, light-duty conveyors for smaller scale operations, we take the time to design heavy-duty, custom built conveyors for these customers, while keeping extraneous costs to a minimum,” stated Lux.

Remcon has built conveyors since 1977 and according to Lux, “We design conveyors that are easy to maintain, run clean, and are heavy-duty enough to handle the harsh environments that are typical at recycling facilities and landfills. We always keep installation capabilities in mind during the design process, and we strive to incorporate easy-to-replace components. Over the last seven years, we’ve manufactured high-speed conveyors for use in conjunction with optical sorting equipment. These conveyors require a much higher degree of specialization due to the speed and precision of the process. As technology advances, the materials and production methods used to put this technology into operation will also need to improve, and we look forward to seeing that come to fruition.”



Midwest Equipment Sales, Inc.

Non-export

■Continued from Page 1

facilities in Las Vegas and New York and hiring more people.”

Like the most reputable e-waste recycling companies, All Green has achieved e-Stewards status. This program is designed to assure the integrity of recycling operations through an independent audit process and operates under the framework of the Basel Convention and the Basel Ban that prohibits the export of toxic e-waste to developing nations.

All Green is also in the process of obtaining an R2/RIOS certification as an electronic recycler, the other industry standard.

Many e-recyclers are adopting both certifications as well as achieving the ISO 14001 standard status that implements best practices and procedures for an environmental management system.

All Green routinely hosts community e-waste collections around the state and provides e-waste solutions to corporations, government entities and large and small businesses and has formed a partnership with California State University campuses.

For entertainment companies like Ticketmaster and Live Nation, All Green provides national IT asset management and recycling services. For Fox Entertainment it does asset management, hard drive destruction and electronics recycling. The company also holds various government contracts to destroy government owned electronics and counterfeits.

As most legitimate e-recyclers have realized, businesses and consumers have heightened data security concerns. All Green erases all data at no charge in accordance with Department of Defense standards. For a small fee, customers can also receive documented certification verifying the secure process.

When asked about the challenges of doing business as a non-exporting e-recycler, Sadeghi replied, “There is a good amount of competition when it comes to the large enterprise accounts and fortune 500 companies. On the local level, however, most of the competition is with small recyclers who ship overseas. The government should certainly be doing more to ban illegal exportation of electronic waste. Too many unscrupulous recyclers are getting away with shipping their product overseas. As more laws are passed and people become more aware of the export problem, recyclers like All Green will be better able to compete for that business.”

Another well established California electronics recycler has proved the viability of implementing a non-export, non-landfill policy. ECS Refining, headquartered in Santa Clara, processes more than 10 million lbs. of electronics per month. ECS holds the distinction of being one of the oldest and the largest United States processor in the e-Stewards program, and the second largest

recycler of electronics in the country following Sims Metal Management.

Founded in 1980, ECS started out handling post-manufacturing scrap residues for Silicon Valley high-tech companies. “When we started out we didn’t call it e-waste processing – we called it precious metal refining from electronics. Precious metal recovery is still one of our core competencies, but 95 percent of what comes in is electronics,” said Jim Taggart, company founder and president.

Today ECS is one of only a handful of e-Steward Certified recyclers in California. It has another processing plant in Texas which was recently e-Stewards Certified with their Environmental Management System being registered to ISO14001:2004 making it one of the few in that state to hold the certification. The company is undergoing expansion with plans over the coming months to open new processing plants on the east coast and in the mid-west. “We now employ approximately 280 and are privately-held. We did over \$60 million last year. We will do over \$90 million in the electronics processing part of our business this year,” Taggart said.

With processing plants in Stockton, California and Terrell, Texas, ECS does business nationally, but its primary collection area of electronic goods covers the western states. It operates collection and transfer stations in northern and southern California and has an established a network of over 300 collection points throughout the state. In early 2012, ECS will have national processing facilities in the mid-west and east coast.

Taggart explained how his collection system works and differs from most drop-off locations, “Post-consumer electronics are our big supply category followed by corporate and manufacturers’ discards. We’ve found that non-profit organizations are natural collection points, but we require all our collectors – which include municipalities – to maintain certain standards and verification requirements that align with our e-Stewards certification. We audit the collectors to make sure they do what they say they are doing. That way people dropping off items are assured that their products are being handled properly, their data is being destroyed, the items are processed domestically in an environmentally-sound manner and all of the material is recycled properly.”

To encourage people to drop off obsolete or unwanted electronics, ECS Refining set up its “ecollective™” organization of drop-off locations and a website, www.mycollective.com. A consumer can go to the site, enter their zip code and get a list of the five nearest ecollective locations. “We kicked off this program about a year ago and we do advertising to drive people to the website and collection points,” said Taggart.

Drop-offs are free for consumers, businesses and institutions, and many ecollective members will do pickups. In turn, ECS picks up bulk loads from col-

lectors or has them shipped to its processing plants.

“When we talk about no-landfill, we mean we don’t landfill anything that comes from customers and we don’t landfill any hazardous materials,” Taggart emphasized. “Besides being an electronics recycler, we are also a hazardous waste treatment facility, and virtually 100 percent of what comes in essentially gets recycled. That includes pallets, plastic wrap, foam rubber, wood and fabric. It all gets recycled.”

ECS makes money on recovered precious metals, recycled commodities and from the State of California under the Electronic Waste Recycling Act of 2003. Taggart explained, “In California it’s a consumer-paid program. The state collects a fee when the consumer buys a display device and disperses payments to recyclers for processing CRT and flat screens. It’s a fixed price of 39 cents per pound for qualifying devices and we have to provide the name and address for each device.”

Taggart gave the following rough commodity yield breakdown on the typical mix of electronics his company receives: 25 percent glass, primarily from CRTs and display screens; 25 percent steel, 15 percent plastics, 7 percent aluminum, 5 percent copper, 1 to 2 percent precious metals and the balance miscellaneous materials such as wood and fabric.

He has found ready markets for all commodities with glass being the weakest. Unleaded CRT glass goes into manufacture of fiberglass and structural products



ECS Refining is the largest e-Stewards certified electronic recycler in the United States.

and leaded CRT glass with 20 to 30 percent lead content goes to smelters for recovery.

“With a qualified ‘yes,’ I would say increased recovery of materials is helping offset the high cost of recycling electronics. There are fairly high commodity markets right now for metals and plastics. Those things are helping subsidize the recycling. If we were to eliminate the export of these materials there would be a lot more materials to process and the economics would improve allowing more automated processes and more of a domestic market for these materials.”

“There are an infinite number of people out there, who will collect electronics, but most are brokers, not processors and to a large extent they sell to exporters. The more responsible customers know the difference. There is also a growing awareness that there is a difference between the two certification bodies, however, e-Stewards is considered the “Cadillac” – the most environmentally safe standard. Informed customers appreciate that distinction and are moving in our direction.”

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