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What's behind polystyrene bans?

by MARK HENRICKS

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New York City recently passed a law that will ban polystyrene food containers beginning 2015. With Chicago and other cities contemplating similar laws, it makes one question why these cities aren't recycling the foam instead.

Many recyclers across the country are taking plastic foam and recycling it into new products. And a number of cities, including Los Angeles, are collecting plastic foam from curbsides as part of their recycling effort.

Some recycling advocates say that the trend toward bans is more political than practical. Despite the practical advantages of recycling polystyrene, some elected officials see an advantage in taking a stand against a material that has a negative image from an environmental standpoint.

Another explanation is that polystyrene suffers from a widespread misconception that it is not recyclable. However, in fact, the material can be recycled and the process is easier today thanks to improvements in equipment for washing, densifying and otherwise handling it.

Generally, the problem seems to involve ban proponents who have influence, while recycling proponents don't, and lack of knowledge about recycling makes it hard for decision makers to vote for recycling. "You have activists saying foam is filling up landfills," said Michael Westerfield, corporate director of recycling programs for expanded polystyrene product maker Dart Container Corporation in Mason, Michigan. "And you have elected officials who aren't experts on it, so it makes sense to them to ban it."

Recyclers, however, know better. Al Valkema, national sales director for Sebright Products in Hopkins, Michigan, a maker of a line of compactors including densifiers suitable for expanded polystyrene foam, said his company recycles three million pounds of foam annually. "I wouldn't be a fan of a ban," Valkema said.

In New York, however, polystyrene foam food containers will be banned starting in 2015 unless recycling proponents can successfully demonstrate that the materials can be recycled. The problem is not so much that foam food containers are inherently hard to recycle, or even that they are contaminated with food. One obstacle is getting enough of the light, bulky containers in one place to make processing or transporting them worthwhile, according to Westerfield.

"The biggest challenge that we face is probably the lack of critical mass at certain facilities," Westerfield said. MRFs generally sell materials in single lots of 40,000 lbs. Because foamed plastic is light, especially compared to volume, it can take a long time to accumulate enough material to move it. And foam stored outside and exposed to the elements may be so damaged or degraded by the time a full load has been collected that it cannot be recycled.

The critical mass problem is one reason why it's been difficult to replicate at the consumer level the success of recycling polystyrene that has been seen at hospitals, universities and other single-point large generators of polystyrene containers. However, when enough polystyrene of the proper sort is collected it can be recycled.

Dan Helfenbein, president of Recycling Solutions in Elk Grove Village, Illinois, said 30 percent of his total material volume comes from polystyrene foam collected from industries where it is used mostly for packing. Markets for the recycled materials are good, Helfenbein said. "It goes in the toy market, the sporting goods market and they use it for picture frames."

Helfenbein doesn't take any coffee cups, clamshell takeout containers or other foodservice, however. So he expects even if nearby Chicago does ban polystyrene food containers, it would have only a small impact on his supply.

Westerfield said educating people about the prospects



Equipment such as this densifier is necessary to compress expanded styrene packaging to prepare materials for recycling.

for recycling polystyrene is one of the key challenges facing recycling proponents. Foam, he says, is generally superior to the major foodservice alternative, paper, when it comes to energy consumption, air emissions, water emissions and other environmental concerns. However, he said, the general belief is the opposite, that paper is far preferable to foam. "Most people's perception of foam is not positive," he said. "We have to do a better job of explaining the realities of it."

When more decision makers are aware of the practical advantages, curbside post-consumer recycling of foodservice and other foam can succeed. Westerfield noted that in 2007 a single community in California recycled foam. Now, he says, 65 do so. "Most people are told from a very young age that foam is not recyclable," he said. "We know that's not true."

One way to introduce food service foam recycling is for large generators such as school districts to implement it. Because they produce large amounts of food service foam at a single location, it's more practical for them than for

curbside collection recycling programs. And many school districts do just that, and have found that recycling foam lunch trays greatly reduces the amount of waste they are sending to landfills. However, according to Dart, most of those districts are in California and Michigan. Lack of local examples may be why New York and Chicago are turning to bans instead of recycling.

Bans aren't on the agenda in most places, however, despite the fact that little food service foam recycling occurs in most places. Scott Flagg, an environmental specialist senior with the Iowa Department of Natural Resources, said he isn't aware of any bans in his state, but he's also not aware of much recycling going on. Most residential collection of foam is in smaller cities, he said. "The major metro areas haven't added that to their curbside collection," Flagg said.

One reason for lack of interest in recycling foam may be that recyclers need to buy additional equipment, such as densifiers, to prepare it for processing or transport. "You

See POLYSTYRENE, Page 4

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EPA to remove over two thousand drums of hazardous materials from New Jersey site

U.S. Environmental Protection Agency (EPA) regional administrator Judith A. Enck disclosed that the EPA has begun removing more than 2,000 drums and containers of toxic substances from the Superior Barrel & Drum Company facility in Elk Township, New Jersey and sending them out of the area for proper disposal.

The 5.5 acre Superior Barrel and Drum site was a drum recycling and reconditioning business that allegedly cleaned and reconditioned metal and plastic drums for resale, reuse or disposal. Information indicates that the facility began operating in the 1980s and stopped operations sometime in late 2012 or early 2013. In August 2013, the EPA found thousands of drums and containers at the site abandoned and left in a state of disrepair. Many had holes, missing tops, bulging on the sides or bottoms or were leaking their contents onto the ground. The EPA, after being contacted by the New Jersey Department of Environmental Protection (DEP), has been working for over four months to bring conditions at the site under control and work toward the removal of the containers and hazardous materials.

“The abysmal storage conditions and poorly managed toxic chemicals found by EPA at this facility are unlawful, threaten the environment and are simply unacceptable,” said Judith A. Enck, EPA regional administrator. “The EPA has worked for months with the state and local governments to get the hazardous materials at this site under control and protect this community.”

Information provided by DEP indicates that in early 2010, in response to complaints that the number of drums and containers at the facility was growing, the DEP got the owner to initiate a plan to remove drums, containers and rinse water. DEP stated that this effort was making slow progress for months but stopped, leading to DEP administrative enforcement actions against the company. The DEP formally requested assistance from EPA on August 29,



Sampling teams use supplied air for breathing and monitor the ambient environment with multi-gas meters at the Superior Barrel & Drum Site. PHOTO COURTESY OF US EPA

2013, when it became clear in their view that the owner had no intentions of addressing the problems at the facility.

EPA was asked by DEP to evaluate the facility and take appropriate actions to remove any threat posed by substances in the drums and other containers.

After the facility owner refused access to the site, EPA requested that U.S. Attorney Paul Fishman in New Jersey obtain warrants from a federal judge that would allow EPA to enter the property to conduct cleanup work. Under a September 12, 2013 warrant, EPA gained access to the site, installed fencing, warning signs and round-the-clock surveillance and sampled the contents of drums and containers.

The EPA took samples of the contents of the approximately 2,000 drums and containers and stabilized leaking containers and drums by placing them or their contents into more secure containers. The samples revealed that the drums and containers held hazardous materials, including corrosive and flammable chemicals, benzene, toluene, trichloroethylene, ethylbenzene, xylenes, polychlorinated biphenyls and lead. Exposure to these pollutants can have serious health effects.

On September 27, 2013, EPA obtained a second federal warrant allowing the agency to remove the deteriorated containers of hazardous materials from the property. The EPA is now transporting and properly disposing of the contents of the drums and containers at regulated hazardous waste disposal facilities out of the area. The EPA has developed a plan to ensure that the removal of the chemicals is done safely. Fire department and hazardous materials response teams have been consulted. The EPA also continues to monitor the air surrounding the work areas to protect the public and to keep the municipal government and local community informed. The EPA has spent about \$800,000 on the cleanup so far and expects to have completed the removal of drums in the spring.

The EPA is coordinating with Elk Township, the local fire and police departments, the Gloucester County Hazardous Materials Response Team and the New Jersey Department of Environmental Protection on the ongoing investigation and cleanup at the facility.



Drums at the Superior Barrel & Drum site. PHOTO COURTESY OF US EPA

While this site is not on the Superfund National Priorities List, the Superfund program operates on the principle that polluters should pay for the cleanups, rather than passing the costs to taxpayers. The EPA is currently searching for parties legally responsible for the contamination at the site in order to hold them accountable for the costs of investigation and cleanup.

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Polystyrene

■Continued from Page 1



8,000 foam cups before and after being densified.

can't transport a trailer of 90 percent air," Flagg said. "They're going to have to invest in that second step at the MRF to make it economical."

When foam isn't recycled, it goes to the landfill. Like most materials in a landfill, it will take up space indefinitely. Foam may not be adding to undesirable leachate, Flagg said, but anything that takes up landfill space is attracting attention. Right now, there is no ban proposed and they are eager to work with businesses that are interested in finding ways to recycle it. "We're always looking for opportunities for additional recycling," he said.

Lawmakers in New York and elsewhere are not as interested in recycling foam because banning it makes more political sense, said Betsy Steiner, executive director of the EPS Industry Alliance, an industry information and advocacy group in Crofton, Maryland. "For a legislator to get up and say that they are doing something to save the environment gets them votes. Whether it actually benefits the environment or not is unimportant," added Steiner.

Since polystyrene foam makes up just one percent of the material entering landfills, she noted, banning it isn't likely to make much difference to the rate landfills are consumed. "We really think they can't justify these bans for a lot of different reasons," Steiner said. "They're not reducing solid waste. So what are they accomplishing?"

With its reputation as an environmental negative, combined with the widespread ignorance about its potential

for recycling, a polystyrene foam ban can seem like an accomplishment. But that's not how recycling advocates see it. "It's a perception issue," Steiner said.

In New York, recycling advocates have one year to turn that perception around by showing they can successfully recycle the city's food service foam. Recycling initiatives have support from many restaurant owners whenever the topic of bans arises. With paper-based alternatives costing twice as much as foam containers, they have good reason to support recycling efforts.

Westerfield said that recycling advocates had received an offer from a recycler to make a long-term commitment to take the city's post-consumer foam food service material, but the city pursued the ban anyway. Now, given the short timeline they have to work with, whether or not New York recyclers can do what it will take to avoid the ban is not clear.

If the city does initiate a ban, it would go against what environmentally conscious governments in other countries do to deal with polystyrene, according to Valkema. "We are one of many

recycling EPS in the world today," he said. "It seems like the U.S. is the only place where you see bans on the material."

In the final analysis, the current trend toward expanded polystyrene bans in the U.S. seems primarily driven by a combination of political expediency and inaccurate understandings of how and whether foam can be recycled. As recycling is seen more and more to be a viable alternative, it seems likely that fewer bans will be enacted and perhaps that existing ones will be overturned. It will take education and effort by recycling advocates, but the bottom line is that both effective recycling techniques and markets for the recycled material exist. And that is a double positive that ultimately seems likely to prevail.

"Some materials are more difficult to recycle than others and our material is more difficult to recycle than some," said Steiner. "But when you look at it from the environmental point of view, saving the environment isn't always easy. Sometimes you have to put some work and thought behind it. That's certainly the case with polystyrene."

Events Calendar

March 4th-8th

CONEXPO-CONAG. Las Vegas Convention Center, Las Vegas, Nevada. 630-585-7530 • www.conexpoconagg.com

March 9th-12th

27th Annual Southeast Recycling Conference & Tradeshow. Hilton Sandestin Beach Golf Resort & Spa, Destin, Florida. 800-441-7949 • www.southeastrecycling.com

March 12th-13th

Association of Postconsumer Plastic Recyclers. 2014 Spring APR Membership Meeting, Orlando, Florida. 202-316-3046 • www.plasticsrecycling.org

March 18th-20th

Platts Scrap Seminar and Steel Markets North American Conference. Chicago, Illinois. 781-430-2100 • www.platts.com

March 19th-21st

14th International Automobile Recycling Congress IARC 2014. Brussels, Belgium. www.icm.ch

March 31st-April 2nd

Aluminum Association Spring Meeting. Omni La Mansion Del Rio, San Antonio, Texas. 703-358-2960 • www.aluminum.org

April 6th-10th

ISRI. Mandalay Bay Resort and Casino, Las Vegas, Nevada. 202-662-8544 • www.isri.org

April 15th-16th

NERC Spring Workshop: Urban & Rural Organics Management Programs. Harraseeket Inn, Freeport, Maine. www.nerc.org

April 29th-May 1st

WasteExpo. Georgia World Congress Center, Atlanta, Georgia. 800-927-5007 • www.wasteexpo.com

May 4th-7th

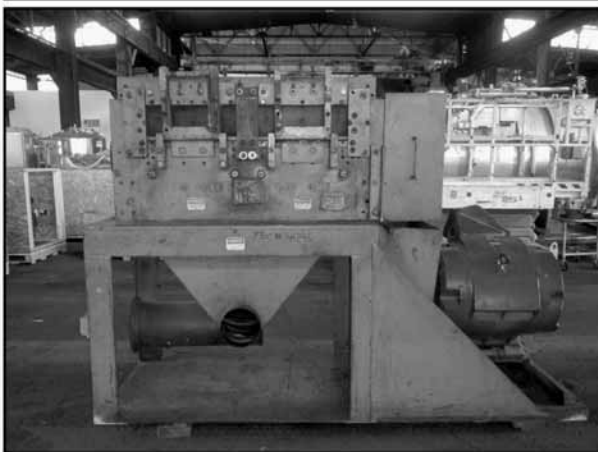
The Federation of New York Solid Waste & Recycling Conference with Trade Show. The Sagamore, Lake George, New York. 518-541-2548 • www.nyfederation.org

May 5th-8th

AISTech 2014, The Iron & Steel Technology Conference and Exposition. Indiana Convention Center, Indianapolis, Indiana. 724-814-3068 • www.aist.org

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California invests in recycling infrastructure

Environmental advocates joined with business leaders to support Governor Jerry Brown's plan to invest \$30 million of cap-and-trade proceeds in recycling, composting, recycled-content manufacturing and organic waste to energy projects. This funding will help build the infrastructure necessary to transition the waste sector from a major source of climate pollution to a source of greenhouse gas reductions.

Recycling, composting and using organic waste to generate renewable electricity and fuels are proven, cost effective ways to reduce greenhouse gas emissions. Making new products from recycled materials helps close the loop by reducing the carbon impact of California's manufacturing sector, while supporting its expansion. These multiple industries also have a demonstrated track record of putting Californians to work, producing twice the environmental benefit when compared to disposal of the same materials. Diverting materials from landfills –while expanding domestic end uses for the recovered materials – helps achieve multiple state policy objectives.

"These funds will help create the right economic environment for construction of vital anaerobic digestion and composting infrastructure that is necessary to achieve the state's 75 percent recycling goal," said Mike Sangiacomo, president and chief executive officer of Recology. "Additionally, the development of anaerobic digestion will help create green jobs, as well as new mechanical and technological expertise in our industry."

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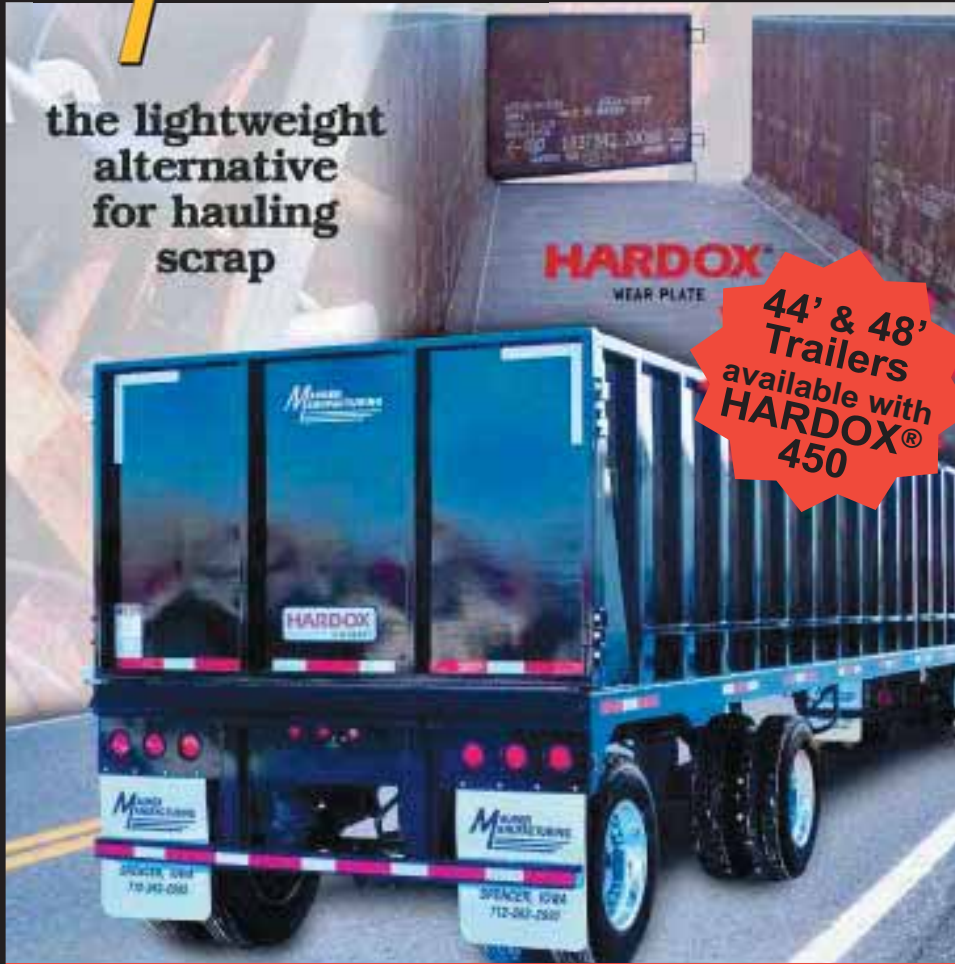


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EPA awards over \$460,000 for environmental projects along the Mexican border

The U.S. Environmental Protection Agency (EPA) has awarded \$461,368 in grants to fund 7 environmental projects along the California and Arizona U.S.-Mexico border.

The projects include restoration of an important estuary, expansion of a municipal oil recycling program and several efforts to track air pollution in the region.

The funds were awarded in partnership with the Border Environment Cooperation Commission, under the bi-national U.S.-Mexico Environmental Program: Border 2020.

The projects selected address the public health and environmental protection goals of the Border 2020 Program and are part of the overall environmental funding available for the California/Baja California and Arizona/Sonora regions. The funds will be matched by an additional \$354,746 in funding from the recipient organizations.

The bi-national project was funded by the San Diego Foundation and EPA's Border 2020 through a grant to 4walls International. 4walls constructed bi-national park space using trash pulled from the Tijuana River Valley and tributary canyons. The re-purposed trash might have otherwise entered the Tijuana River, harming the fragile ecosystem of the Tijuana River National Estuarine Research Reserve in San Diego. Mex-

ico's Environment Ministry is also contributing significant resources to the beautification of Los Sauces Park in Tijuana.

The following organizations received grants:

Imperial County Air Pollution Control District: Idling impacts at the Calexico west and east ports of Entry Calexico, California – Grant Amount \$98,800.

Pronatura-Noroeste A.C.: Restoration of the Upper Tijuana River Corridor, Ensenada, Baja California – Grant Amount \$98,500.

Tijuana Calidad de Vida: Air emissions inventory for Nogales, Sonora – Grant Amount \$53,610.

Arizona State University: Mariposa port of entry wait time emissions study, Phoenix, Arizona – Grant Amount \$67,314.

Arizona Department of Environmental Quality: Tools to help border communities reclaim resources, Phoenix, Arizona – Grant Amount \$63,621.

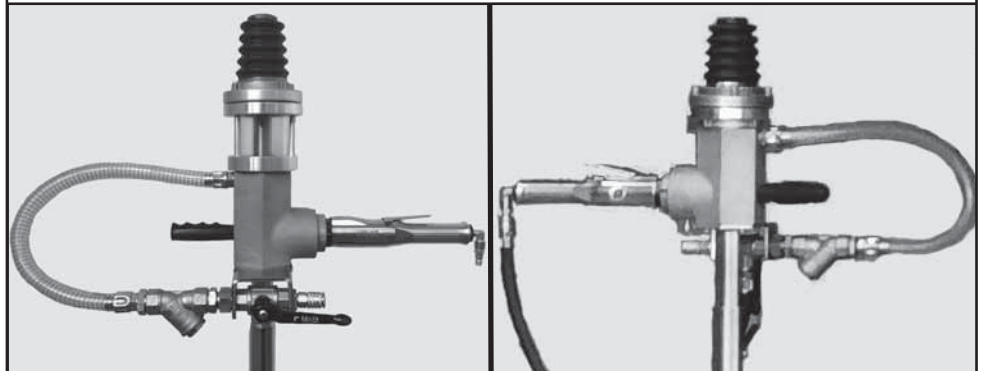
Asociación de Protección y Seguridad Ambiental: Training on handling of wastewater containing metals and cyanide, Nogales, Sonora – Grant Amount \$63,015.

City of Nogales, Sonora: Used oil collection and management in Nogales – Grant Amount \$16,508.

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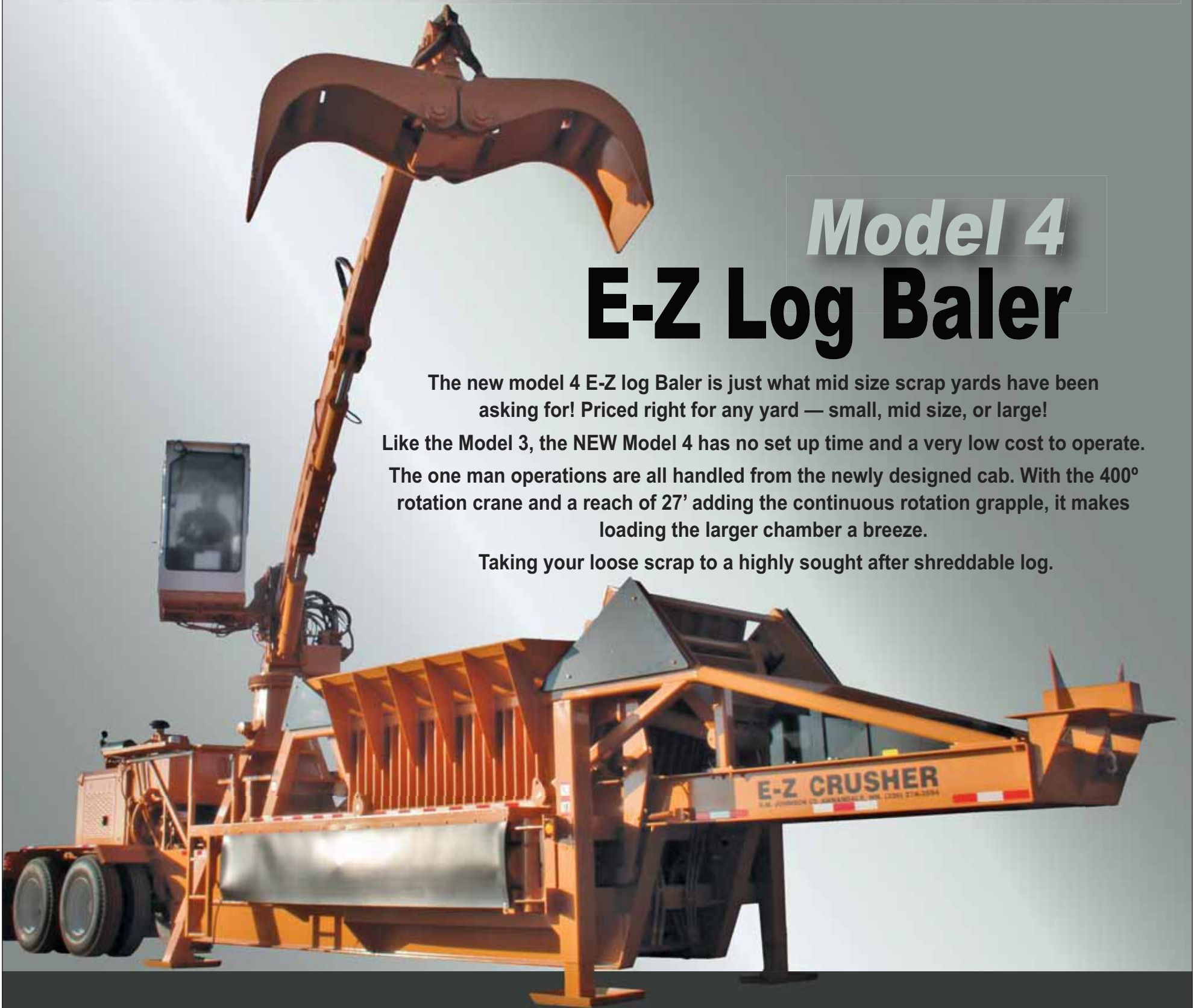
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PAPER

AF&PA releases December paper reports

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

Containerboard

Containerboard production increased 4 percent over November 2013 and was 2.7 percent lower compared to the same month last year. The month-over-month average daily production increased 0.7 percent. The containerboard operating rate for December 2013 increased 0.7 points from November 2013, from 90.7 percent to 91.4 percent.

Boxboard

Total boxboard production increased 1.4 percent when compared to December 2012 and increased 1.1 percent from November. Unbleached Kraft Boxboard production decreased over the same month last year and decreased compared to last month. Total Solid Bleached Boxboard & Liner production increased compared to December 2012 and increased compared to November. The production of

Recycled Boxboard was flat compared to December 2012 and decreased when compared to November.

Kraft Paper

Total Kraft paper shipments were 125.5 thousand tons, 9.4 percent higher compared to November. Bleached Kraft paper shipments increased year-over-year 6.2 percent, but the 2.6 percent year-over-year decline in unbleached Kraft paper shipments was enough to bring overall Kraft paper shipments down 1.5 percent year-over-year. Total month-end inventories were essentially flat compared to November 2013.

Printing-Writing Paper Report

According to the report, total printing-writing paper shipments increased 2 percent in December compared to December 2012, with increases in uncoated papers more than offsetting decreases in coated grades. Additional key findings:

- Uncoated free sheet (UFS) paper shipments in December increased year-over-year for the fourth time in the last

six months, with shipments 4 percent ahead of December 2012. For the year, uncoated free sheet shipments were 2 percent below 2012 levels.

In December increased year-over-year for the fourth time in the last six months, with shipments 4 percent ahead of December 2012. For the year, uncoated free sheet shipments were 2 percent below 2012 levels.

- December coated free sheet (CFS) papers shipments decreased 4 percent compared to December 2012, with 2013 shipments down 2 percent relative to the same twelve months of 2012.

- Uncoated mechanical (UM) paper shipments increased 12 percent in December compared to December 2012, the fourth consecutive month of year-over-year increases.

- Coated mechanical (CM) shipments of 244,500 tons in December decreased 1 percent compared to December 2012 and were down 9 percent for the year in 2013.

USW paper workers ratify agreement

United Steelworkers (USW) members at four paper mill sites in Calhoun, Tennessee, Catawba, South Carolina, Coosa Pines, Alabama, and Augusta, Georgia, overwhelmingly ratified by a 4 to 1 margin a master agreement with Resolute Forest Products, a producer of newsprint and specialty and coated paper.

The 5 year master agreement covers 1,500 members in 7 USW local unions. It also impacts mill workers who are members of the International Brotherhood of Electrical Workers and United Association of Journeymen and Apprentices of the Plumbing, Pipefitting and Sprinkler Fitting Industry of the U.S. and Canada (UA).

The contract improves wages in each of the five years of the master agreement, secures high-quality health care and ensures the Resolute mills continue to be the most efficient plants.

This second-generation master agreement builds upon the first one negotiated four years ago when AbitibiBowater Inc. was undergoing bankruptcy. AbitibiBowater now does business as Resolute Forest Products. The USW negotiated the first master agreement as part of a strategy to enable Resolute to successfully complete its reorganization and emerge from creditor protection under the Companies' Creditors Protection Act in Canada and chapter 11 of the U.S. Bankruptcy Code in 2010.

Norske Skog enters agreement with CellMark

Norske Skog and CellMark AB have agreed to enter into a long term marketing agreement for sales of publication paper in the Asian markets.

The parties will establish a new distributor in Singapore, NorCell Asia, which will have the exclusive marketing rights for all Norske Skog products to be sold in the Asian markets.

Norske Skog will transfer its current sales operations and sales staff in Singapore from PanAsia Paper Trading to NorCell Asia.

Norske Skog and CellMark established a similar long term sales cooperation for the North American markets in August 2011. The North American sales operations are oper-

ated by NorCell Inc. The parties' experiences from the cooperation in the North American markets have triggered the expansion of the cooperation between the two groups into the Asian markets.

Norske Skog expects to release approximately \$15 to 20 million in working capital.

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AUTOMOTIVE

Auto inspection business charged with falsifying emissions test results

New Jersey acting attorney general John J. Hoffman disclosed that three men who operate a private auto inspection business in Paterson were charged with fraudulently using data simulators to generate false results for motor vehicle emissions inspections. The men allegedly took payments from customers in return for using the electronic devices to generate passing results for vehicles that had failed emissions inspections.

The charges are the result of a joint investigation by the Division of Criminal Justice, the New Jersey Motor Vehicle Commission and the New Jersey Department of Environmental Protection.

The Division of Criminal Justice charged the following individuals with second-degree conspiracy, second-degree computer crimes and third-degree tampering with public records or information:

- Christopher Alcantara of Paterson, owner of Five Stars Auto Inspection, which is located in Paterson.

- Mariano Alcantara of Clifton.

- Lewis Alcantara-Sosa of Paterson.

Christopher and Mariano Alcantara were arrested by detectives of the Division of Criminal Justice and were lodged in the Bergen County Jail with bail set at \$50,000 for each. Lewis Alcantara was charged by summons and was released without posting bail after he was processed on the charges.

Most passenger cars and light-duty vehicles of model year 1996 or later have an onboard diagnostic (OBD) sys-

tem that monitors the vehicle's emissions system. During an OBD inspection, an inspector at a private inspection facility or a central inspection facility (CIF) connects state-approved inspection equipment to a standardized data link connector in the vehicle to retrieve OBD data in order to determine whether the vehicle passes or fails.

It is alleged that, on numerous occasions during the past year, the defendants temporarily installed OBD simulators in place of the data link connector in vehicles that had failed emissions inspections. The defendants allegedly charged customers up to \$150 in return for using OBD simulators.

During the course of the investigation, investigators conducted surveillance of the defendants and Five Stars Auto Inspection. In addition, they allegedly arranged for the defendants to install OBD simulators in two undercover vehicles so that they would pass inspection. Investigators executed a search warrant today at Five Stars Auto Inspection, where they seized evidence including OBD simulators and records.

Second degree crimes carry a sentence of 5 to 10 years in state prison and a fine of up to \$150,000. In addition, the charge of second degree computer crimes carries a mandatory period of parole ineligibility equal to one-third to one-half of the sentence imposed. Third degree crimes carry a sentence of 3 to 5 years in state prison and a fine of up to \$15,000.

Automakers and aftermarket move to preserve consumer choice in auto repair

The Alliance of Automobile Manufacturers (Alliance), the Association of Global Automakers (Global), the Automotive Aftermarket Industry Association (AAIA), and the Coalition for Automotive Repair Equality (CARE) disclosed their collective acceptance of a national agreement to ensure consumer choice in post-warranty auto repair, decisively ending the longstanding "Right to Repair" debate within the industry.

The national agreement is based on a recent law finalized in the Commonwealth of Massachusetts (Chapter 165 of the Acts of 2013). The signed Memorandum of Understanding (MOU) extends the essential provisions for all light vehicles negotiated in the Massachusetts law nationwide; it impacts all companies and organizations that are currently members of the signatory associations.

This national agreement ensures the Alliance, Global, AAIA, and CARE will

stand down in their fight on "Right to Repair" and work collectively to actively oppose individual state legislation while our respective groups work to implement this MOU. In the meantime, the parties agree that further state legislation is not needed and could serve to weaken the effectiveness and clarity of the MOU.

"Since the first Right to Repair Act was introduced in Congress in 2001, CARE and the automotive aftermarket have worked to ensure our customers continue to have the right to choose where they buy their parts and have their vehicles serviced," said Ray Pohlman, president of CARE. "This agreement will ensure vehicle owners will have competitive and quality choices in their repairs while strengthening the auto repair industry nationwide. This agreement illustrates what can happen when organizations focus on putting customers and consumers first," Pohlman said.

Insurance Auto Auctions expands

Insurance Auto Auctions, Inc. (IAA), a wholly-owned subsidiary of KAR Auction Services, Inc., has opened a new branch in Shreveport, Louisiana and relocated its Fargo, North Dakota branch to a brand new facility.

IAA's new live and live-online auction facility is 24 acres with additional expansion possibilities. The 9,800 sq.ft.

fully-functioning facility, which opened in December, gives IAA the additional capacity necessary to expand its footprint in the Northwest corner of Louisiana. In addition, IAA used 100 percent recycled products in the construction of the facility, including recycled content for the base material and recycled asphalt for the surface of the facility.

NEW and USED EQUIPMENT

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- 6' Car Body Forks BRCO ACS Q/C Pro 2000 30 Series
- 5' Wicker IT-38 Q/C - can change to longer forks
- 6' Car Body Forks BRCO Volvo Q/C
- (2) 6' Car Body Forks BRCO - can put brackets to fit your machine
- 5' Werk Brau Pin On Komatsu WA 180-1, WA 200-5, WA 200-6, DR 518, can put on desired fork length
- (2) 64' JRB 416 Q/C Adjustable fork frame - can put on desired fork length
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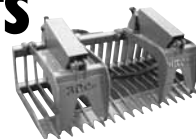
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JRB 416

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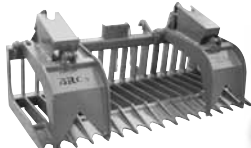
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Lake Erie Portable Screeners has added three roller bed conveyors to its line of screening equipment. The company designed the new ground stacking and radial stacking conveyors to withstand the harsh demands of processing materials in construction, landscaping and aggregate applications. They can be used with Lake Erie's Pitbull™ 2300 screening plant to produce three grades of material at once.

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Vortex De-pollution USA now distribute Green Car De-pollution Systems for automotive fluid recovery, making them the only company to offer both a punch and drill system.

The new patented drill design is a huge improvement on the last century mechanics of other fuel drill systems. It offers either a standard body, or a sight glass version for fuel quality control.

The body is machined to provide a level of precision unrivalled by competitors. All components are manufactured to high tolerances, ensuring that regular drill breakdowns are a thing of the past.

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ALTERNATIVE ENERGY

Large-scale power storage system completed in Japan



Sumitomo Corporation, headquartered in Chuo-ku, Tokyo, has developed and installed the world's first large-scale power storage system which utilizes used batteries collected from electric vehicles (EV). This commercial scale storage system, built on Yume-shima Island, Osaka, began operation last month.

Over the next three years, the system will measure the smoothing effect of energy output fluctuation from the nearby "Hikari-no-mori," solar farm, and will aim to establish large-scale power storage technology by safely and effectively utilizing the huge quantities of discarded used EV batteries which will become available in the future. This

project was selected as a model project for "verification of the battery storage control to promote renewable energy" for the fiscal year 2013 by the Ministry of the Environment of Japan.

Sumitomo Corporation created the joint venture company, "4R Energy Corporation," in collaboration with Nissan Motor Co., Ltd. in September 2010, to address the secondary use of EV lithium-ion batteries. The used EV batteries that will be recycled into this large-scale storage system have been recovered and have gone through thorough inspection and maintenance at 4R, to confirm safety and performance. This prototype system (600kW/400kWh) consists of 16 used EV batteries.

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ALTERNATIVE ENERGY

New York to provide funding to dairy farmers to convert waste

New York Governor Andrew Cuomo will make available nearly \$21 million to New York dairy farmers to convert farm waste to energy.

Cuomo said the project aims to help dairy farmers convert farm waste to energy and develop business and environmental plans to reduce operating costs and increase profitability.

Most of the funding targets anaerobic digestion. "Farmers that utilize anaerobic digester technology are able to produce renewable energy and lower their costs while providing a number of environmental benefits to their local communities," said John Rhodes, president and chief executive officer, New York State Energy Research and Development Authority (NYSERDA).

Twenty million dollars will be available through NYSERDA to install anaerobic digester technology that produces renewable biogas used to produce electricity and heat from organic waste. Farms, food processing manufacturers or municipal wastewater sites will be eligible for up to \$2 million per project.

During the past 10 years, NYSERDA and the New York Power Authority have awarded nearly \$30 million toward anaerobic digestion projects

and related technology. The funding currently supports 20 operational digester projects.

The digester technology funding will be available on a first-come, first-served basis for eligible projects.

Funding for the Dairy Acceleration Program (DAP) will be increased by \$850,000, which is in addition to the \$1 million previously announced by the governor in August.

Payments under DAP may include: up to \$5,000 per farm to write a business plan or develop a combination of a business and facility growth plan; and up to \$4,500 to update an existing Comprehensive Nutrient Management Plan (CNMP) or \$6,000 to develop a new one. Additional funds also will be available to design farm practices described in CNMPs. CNMPs are a conservation system for animal feeding operations designed to address soil erosion and water quality concerns. The CNMP encompasses the storage and handling of manure as well as using and applying manure nutrients on farm land. Through DAP, the state awarded dozens of projects already for farms with an average herd of about 140 cows.

Dominion begins operations of energy facilities in Connecticut

Dominion has begun commercial operations at its Dominion Bridgeport Fuel Cell facility located in Bridgeport, Connecticut, and the Dominion Somers Solar Center located in Somers, Connecticut. Together, the two facilities produce approximately 20 MW of clean energy for the people of Connecticut, enough power for approximately 20,000 homes.

Dominion Bridgeport Fuel Cell is producing 14.9 MW of clean energy using an electro-chemical process that efficiently converts natural gas into electricity.

Dominion Bridgeport Fuel Cell is part of Project 150, a program sponsored by the state and supported by the Clean Energy Finance and Investment Authority (CEFIA) to increase renewable and clean

energy projects in Connecticut by 150 MW. CEFIA is the nation's first full-scale clean energy finance authority that leverages public and private funds to drive investment and scale up clean energy deployment in Connecticut.

FuelCell Energy Inc. (FCE) will operate and maintain the facility under a services contract with Dominion. FCE is supplying five Direct FuelCell stationary fuel cell power plants and an organic rankine turbine that will convert waste heat from the fuel cells into additional electricity.

Dominion will sell the output of the fuel cell power station and solar center to Connecticut Light & Power under fixed power purchase agreements.

CONSTRUCTION & DEMOLITION

Survey finds increased use of recycled materials in asphalt

In a survey of the use of recycled materials and warm-mix asphalt usage by the U.S. asphalt pavement industry, nearly a quarter of all asphalt mixtures produced in the 2012 construction season used warm-mix asphalt (WMA) technologies.

The survey, conducted by the National Asphalt Pavement Association (NAPA) under contract to the Federal Highway Administration (FHWA), found that the 1,141 U.S. asphalt plants queried produced about 86.7 million tons of WMA during the 2012 construction season. This marks a 416 percent increase in the use of warm mix since the survey was first conducted in 2009.

Because WMA is produced at a lower temperature than traditional asphalt mixes, it uses less energy to produce, reduces emissions, improves worker safety and offers construction benefits. U.S. Secretary of Transportation Anthony Foxx commented in January during the 2014 Transportation Research Board Annual Meeting that the use of WMA is expected to save \$3.6 billion in energy costs alone by 2020.

Asphalt pavements also use increasing amounts of recycled materials. The survey found that 68.3 million tons of reclaimed asphalt pavement (RAP) and 1.86 million tons of recycled asphalt shingles (RAS) were used in new asphalt pavement mixes in 2012. For the first time since the start of this survey in 2009, the amount of RAP and RAS used by producers exceeded the amount collected.

The use of RAP and RAS during the 2012 paving season translates to a savings of 21.2 million barrels of liquid asphalt binder, saving taxpayers some \$2.2 billion. When reclaimed asphalt pavement and shingles are reprocessed into new pavement mixtures, the liquid asphalt binder in the recycled material is reactivated, reducing the need for virgin asphalt binder.

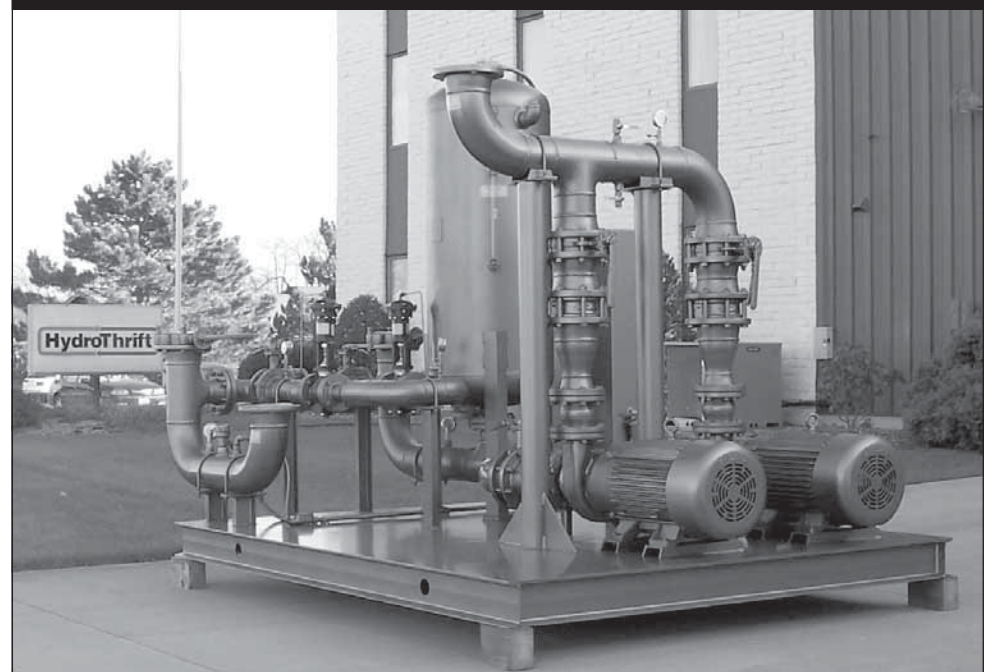
Compared to previous surveys, conducted annually since the 2009 construction season, the use of recycled materials has continued to increase.

In 2012, RAS usage reached 1.86 million tons – a 56 percent increase over 2011, and a 165 percent increase since 2009. Since 2009, RAS usage has been reported in 37 states. RAS includes both manufacturer scrap shingles and post-consumer roofing shingles.

RAP usage also continued to climb, increasing to 68.3 million tons in 2012, a nearly 22 percent increase from 2009. More than 99 percent of asphalt pavement reclaimed from roads went back into new roads. In the survey, 98 percent of producers reported using RAP in their mixes.

The 2012 survey also asked for the first time about the use of ground tire rubber, steel and blast furnace slags, and other recycled materials. Although national estimates of these products' usage were not calculated, more than 1 million tons of other recycled materials was reported as being incorporated into asphalt mixtures.

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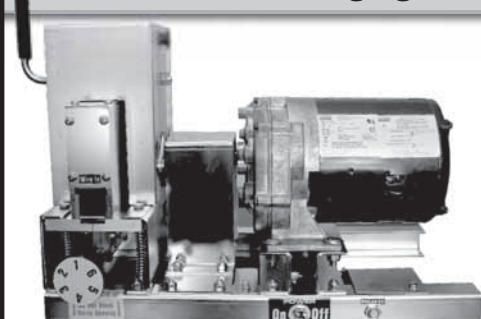
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PLASTICS

Portland proposes new fees on plastic and paper bags

Proposed fee advances in Portland, Maine

A Portland city council task force proposal would attach a \$.10 “waste reduction fee” for each disposable shopping bag used in the city of Portland. The proposal has won the endorsement of a special working group and will head to a City Council subcommittee for review.

Originally, the proposed fee would apply to bags given out by grocery and convenience stores but has been extended to include dry cleaners, restaurants and food trucks and farmers markets.

The fee would be charged for both plastic and paper bags and is intended to encourage the use of reusable shopping bags and reduce litter.

Opponents of the idea, including a group representing Maine grocers, has said a fee would encourage people to shop outside Portland, and that education and recycling are better solutions to the litter problem.

Under the ordinance, stores would get to keep 40 percent of the fees charged, in order to administer the program, train staff, and educate customers about recycling of disposable bags and alternatives such as reusable ones. The city would receive 60 percent of the fees, and would use the funds for a variety of environmental cleanup measures.

The surcharge, if approved, will go into effect by the end of 2014.

California court upholds ban

The California Court of Appeal has affirmed California’s cities’ right to ban single-use plastic bags. The court agreed to publish its unanimous decision to uphold San Francisco’s plastic bag ban in a December 10 decision, creating a legal precedent on which other cities may rely. The ruling sets the stage for more cities to adopt local laws phasing out plastic bags, and to strengthen their existing laws by expanding them to include restaurants.

Environment California Research & Policy Center, the City and County of San Francisco, the California League of Cities, and the California State Association of Counties all filed motions asking the court to publish its opinion. Plastics industry plaintiffs may still appeal the decision to the California Supreme Court.

So far, 90 California local governments have banned single-use plastic bags. Together, these jurisdictions represent nearly one in three Californians.

Maryland proposes bottle bill

The Maryland Public Interest Research Group (PIRG) delivered 7,500 signed petitions to Gov. Martin O’Malley in support of a bottle bill.

The bottle bill would mean \$.05 back in consumer’s pockets for each can or bottle recycled in Maryland.

“With the bottle bill, Maryland has the opportunity to get to an achievable goal of 80 percent container recycling by 2020,” said Joanna Guy with PIRG.

Under the proposed bottle bill, consumers would bring their bottles and cans to deposit spots and redeem them for cash.

The bill also proposes distributors change their labels to reflect a \$.05

redeemable deposit by April 2015. If approved, the program is expected to go into effect in 2016.

Maryland’s deposit refund campaign is being led by an industry consortium. Owens-Illinois and Alcoa are the driving force between the 2013 refund bill, supported by a number of environmental organizations including the Chesapeake Bay Foundation, Maryland League of Conservation Voters, Abell Foundation, Environmental Finance Center at the University of Maryland, National Aquarium in Baltimore, Alice Ferguson Foundation, Blue Water Baltimore and the Anacostia Watershed Society.

ECO Plastics and Viridor partner

ECO Plastics has joined forces with the UK’s leading recycler, Viridor, disclosing a 12 month contract to help close the loop in soft drink packaging. The multi-million pound agreement will see the recycling business supply 10,000 tons of plastic bottles throughout 2014 – almost 8 percent of ECO Plastics’ total capacity. With the capability to sort 150,000 tons of mixed plastics, the business’ Hemswell facility is responsible

for reprocessing 35 percent of the bottles collected in the UK every year.

The additional surety provided by such agreements has allowed companies like ECO Plastics to invest in the creation of new technology, further developing the UK’s waste infrastructure. In total some 35 percent of ECO Plastics’ feedstock is now supplied through longer partnerships, with a target to reach 70 percent by the end of 2014.

A 92 year old man was walking through a park and saw a talking frog. He picked up the frog and the frog said, “If you kiss me, I will turn into a beautiful princess and be yours for a week.” The old man put the frog in his pocket.

The frog screamed, “Hey, if you kiss me, I will turn into a beautiful princess and make love to you for a whole month.” The old man looked at the frog and said, “At my age I’d rather have a talking frog.”

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METALS

Novelis reports third quarter results

Novelis reported net income attributable to its common shareholder of \$13 million for the third quarter of fiscal 2014. Excluding certain tax-effected items, net income was \$23 million for the quarter, up \$14 million compared to \$9 million reported in the same period a year ago.

Adjusted EBITDA for the third quarter of fiscal 2014 was \$203 million, up 10 percent compared to \$185 million reported for the same period in the prior year. The increase was driven primarily by higher global shipments partially offset by continued pricing pressures in North America and Asia and reduced scrap benefits from lower aluminum prices.

"Our execution in the third quarter was excellent," said Phil Martens, president and chief executive officer for Novelis, "with year-over-year shipment

growth in every operating region. We have made great progress in the commissioning of our major expansions and we are now seeing the benefits of some of these projects in our results. While external market pressures partially offset the bottom line impact of this volume growth, we are confident about the realizable potential for this business as the new projects come on-line."

Shipments of aluminum rolled products totaled 721 kilotonnes for the third quarter of fiscal 2014, an increase of 11 percent compared to 647 kilotonnes for the same period last year. Despite being a seasonally low production quarter, shipments were up one percent sequentially compared to the second quarter. Net sales for the third quarter of fiscal 2014 were \$2.4 billion, up 4 percent compared to the

prior year resulting from higher shipments partially offset by a 12 percent decrease in average aluminum prices and lower conversion premiums.

The Company continues to see strong demand for aluminum flat rolled products globally, particularly in the automotive segment. In December, the Company announced a \$205 million investment to further expand its global automotive aluminum capacity to 900,000 tons annually.

For the third quarter of fiscal 2014, Novelis reported liquidity of \$806 million. Free cash flow was negative \$61 million for the third quarter of fiscal 2014, in part due to \$107 million in semi-annual bond interest payments and \$157 million in capital expenditures.

Upstate Shredding-Ben Weitsman acquires yard in New York

Continuing an aggressive schedule of expansion throughout the Northeast, Upstate Shredding-Ben Weitsman has acquired the assets of Hornell Waste Material Co. of Hornell, New York.

Weitsman facilities are located throughout New York and Pennsylvania. New York locations can be visited in Owego, Syracuse, Binghamton, Liberty, Jamestown, Albany, Rochester, Ithaca and Allegany. Pennsylvania yards are located in Scranton and New Castle.

Hornell Waste Materials (now known as Ben Weitsman of Hornell) was founded in 1908 and is the oldest recycling business in the Hornell area.

The company is located in a region underserved by recycling infrastructure, with other facilities located twenty and thirty miles away; having a state-of-the-art facility in Hornell will meet this need as well as stimulate the economy in the local area.

When adding new scrap yards to the Upstate Shredding-Ben Weitsman feeder yard network, several millions of dollars are spent bringing new yards up to modern operating standards. Typical improvements include new scrap recycling equipment, renovation of existing facilities, erection of new buildings, paved yards, new fencing and landscaping to provide a clean operating environment and aesthetically appealing facility.

Timken 2013 results with improved outlook

The Timken Company reported sales of \$4.3 billion for 2013, a decrease of 13 percent from the prior year. The decline reflects lower demand across most of the company's broad end markets. In addition, a \$117 million decline in steel segment raw material surcharges from the prior year period further decreased revenues. The reduction in sales was partially offset by the benefit of acquisitions of \$86 million in the company's Mobile Industries and Process Industries segments and from strength in the steel segment's automotive end-market sector.

In 2013, the company generated net income of \$262.7 million, or \$2.74 per diluted share, compared with \$495.5 million, or \$5.07 per diluted share, a year ago. Results for 2013 included \$32.8 million of after-tax expense, or \$0.35 per diluted share related to tax expense incurred on the repatriation of overseas cash, tax benefits associated with the reversal of certain income tax reserves from prior years, separation costs associated with the proposed spin-off of the steel business, costs related to previously announced plant closures and other unusual items. Excluding these

items, 2013 net income was \$295.5 million, or \$3.09 per diluted share. This compares with 2012 net income of \$464.6 million, or \$4.76 per diluted share, excluding costs related to previously announced plant closures and Continued Dumping and Subsidy Offset Act (CDSOA) receipts. The decrease in earnings primarily reflects lower volume and manufacturing utilization as well as unfavorable sales mix, which was partially offset by lower raw material and selling and administrative expenses as well as favorable pricing.

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METALS

Steel imports decrease in December

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,502,000 net tons (NT) of steel in December 2013, including 1,884,000 NT of finished steel (down 3.5 percent and 1.5 percent, respectively, versus November final data). 2013 full year total and finished steel imports are 32,146,000 and 24,825,000 NT, respectively, each down 4 percent versus full year 2012. Finished steel import market share was an estimated 22 percent in December and is estimated at 23 percent for full year 2013.

	DEC 2013	NOV 2013	2013 Annual (est)	2012 Annual	% Change 2013 Annual vs. 2012
SOUTH KOREA	300	249	3,718	3,651	1.8%
CHINA	143	163	1,898	1,652	14.9%
JAPAN	146	141	1,894	1,931	-1.9%
TURKEY	45	75	1,204	1,347	-10.6%
GERMANY	94	104	1,112	1,279	-13.0%
TAIWAN	45	58	762	833	-8.6%
INDIA	65	27	731	762	-4.1%
All Others	1,046	1,097	13,506	14,372	-6.0%
TOTAL	1,884	1,913	24,825	25,826	-3.9%

Key finished steel products with a significant import increase in December 2013 compared to November are hot rolled sheets (up 25 percent), hot rolled bars (up 22 percent), standard pipe (up 19 percent), sheets and strip hot dipped galvanized (up 18 percent) and line pipe (up 13 percent). Major products with significant full year 2013 import increases versus full year 2012 include

reinforcing bars (up 23 percent) and hot rolled bars (up 15 percent).

In December, the largest volumes of finished steel imports from offshore were all from Asia and Europe. They were from South Korea (300,000 NT, up 21 percent versus November final), Japan (146,000 NT, up 4 percent), China (143,000 NT, down 12 percent), Germany (94,000 NT,

down 9 percent) and India (65,000 NT, up 135 percent). For full year 2013, the largest offshore suppliers were South Korea (3,718,000 NT, up 2 percent versus 2012), China (1,898,000 NT, up 15 percent), Japan (1,894,000 NT, down 2 percent), Turkey (1,204,000 NT, down 11 percent) and Germany (1,112,000 NT, down 13 percent).

Raleigh Recycling NC enters into agreement

Raleigh Recycling NC., which operates Raleigh Metal Recycling and Goldsboro Metal Recycling has entered into a long term operating agreement with J&G Scrap Metal Recycling in Wilson, North Carolina.

“With all the changes in North Carolina metal theft laws, we wanted to partner with a company that could support us with technology that would ensure we met all aspects of the law and when we heard that the Raleigh Metal Recycling operation and their technology was written up on CNBC’s website and the Wall Street Journal, it helped us make our decision,” said Jeff Charles owner of J&G Scrap Metal Recycling.

The company is now called Wilson Metal Recycling JG. The recycling center will be expanding into electronics recycling which will include computer recycling and all types of e-waste recycling. The new Wilson Metal Recycling JG will also be buying all types of batteries for recycling. They will continue buying from the public as well as industrial and demolition companies.

Steel import permit applications increase

Based on the Commerce Department’s most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of January total 3,080,000 net tons (NT). This was a 19 percent increase from the 2,582,000 permit tons recorded in December and 23 percent increase from the December preliminary imports total of 2,502,000 NT. Import permit tonnage for finished steel in January was 2,414,000, up 28 percent from the preliminary imports total of 1,884,000 in December. The estimated

finished steel import market share in January was 26 percent.

Finished steel imports with large increases in January permits vs. the December preliminary included reinforcing bars (up 165 percent), wire rods (up 151 percent), sheets and strip all other metallic coatings (up 115 percent), plates in coils (up 57 percent), oil country goods (up 36 percent), sheet and strip galvanized hot dipped (up 30 percent) and hot rolled sheets (up 28 percent).

In January, the largest finished steel import permit applications for offshore countries were for South Korea (387,000

NT, up 29 percent from December preliminary), China (199,000 NT up 39 percent), Japan (179,000 NT, up 22 percent), Turkey (172,000 NT, up 280 percent) and The Netherlands (99,000 NT, up 63 percent).

■ For more METAL RECYCLING news, see Page B1



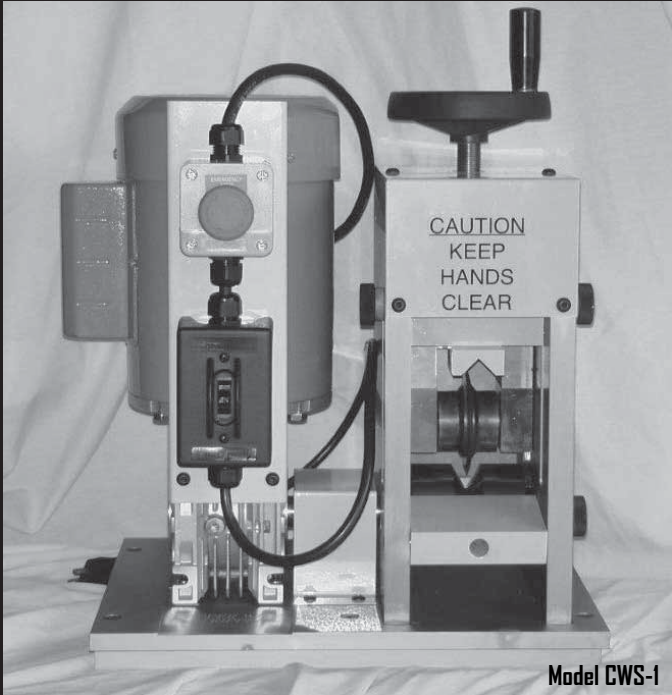

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$285.00	\$292.00	\$310.00	\$340.00	\$380.00
#1 Bundles	per gross ton	285.00	292.00	310.00	340.00	390.00
Plate and Structural	per gross ton	280.00	285.00	315.00	345.00	400.00
#1 & 2 Mixed Steel	per gross ton	279.00	285.00	309.00	340.00	380.00
Shredder Bundles (tin)	per gross ton	265.00	245.00	243.00	280.00	295.00
Crushed Auto Bodies	per gross ton	265.00	245.00	243.00	280.00	295.00
Steel Turnings	per gross ton	189.00	190.00	197.00	195.00	205.00
#1 Copper	per pound	3.06	2.90	3.00	3.01	3.18
#2 Copper	per pound	2.96	2.80	2.95	2.94	3.05
Aluminum Cans	per pound	.57	.57	.63	.68	.70
Auto Radiators	per pound	2.10	1.97	1.98	2.02	2.05
Aluminum Core Radiators	per pound	.60	.58	.60	.66	.66
Heater Cores	per pound	1.75	1.60	1.50	1.49	1.69
Stainless Steel	per pound	.55	.54	.62	.62	.68

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WASTE

Lancaster County acquires Susquehanna Resource Management Complex

The Lancaster County Solid Waste Management Authority (LCSWMA) in Pennsylvania has acquired the Susquehanna Resource Management Complex (SRMC), formerly known as the Harrisburg Resource Recovery Facility, for a total purchase price of \$129,898,000.

As part of the transaction, LCSWMA receives \$16 million towards the purchase price: \$8 million from the previous owner and \$8 million from the Commonwealth of Pennsylvania. The purchase is supported by 20-year waste disposal contracts with the City of Harrisburg and Dauphin County, in addition to a 20-year power purchase agreement with the Commonwealth of Pennsylvania's Department of General Services.

This project boasts the first public to public acquisition of a waste-to-energy (WTE) facility in the United States and was a key ingredient in relieving the distressed City of Harrisburg from over \$360 million of debt. LCSWMA's newly expanded system will now manage approximately 900,000 tons of solid waste with annual revenues of approximately \$85 million.

As new owner, LCSWMA is now fully managing the site, which includes an 800 tons-per-day, 3-boiler mass burn WTE facility, a transfer station, and two ash landfills. Covanta Energy will continue operating the WTE facility portion

of the site under an amended agreement with LCSWMA.

LCSWMA's business plan includes a series of capital improvements to the site over the next 4 years totaling \$18.25 million, including: installing new scales and implementing traffic flow patterns to improve on-site time for customers; constructing a new small vehicle drop-off building for residents and deliveries of construction/demolition waste; and purchasing equipment for upgrades to the WTE facility, as well as other improvements.

The SRMC serves as the drop-off location for waste haulers who collect refuse in Dauphin County and the City of Harrisburg. The SRMC, originally constructed in 1972 and renovated with 3 new boilers and a new turbine generator set in mid-2000s, can generate up to 23 MW of renewable energy. The facility will process approximately 275,000 tons of waste and generate 130,000 megawatt-hours of renewable energy each year. Two ash landfills are also located on the SRMC site – one that closed in 1980 and the other which stages ash from the WTE facility on site. Once the staged ash is dry, it is transported to LCSWMA's Frey Farm Landfill and used as alternative daily cover.

Survey shows Americans would compost if convenient

New survey data suggests that Americans would be open to composting in their homes if it were more convenient. However, the same national survey found that they don't want to pay additional fees or taxes to support such services.

While 72 percent of Americans do not compost their food waste, 67 percent of these non-composters would be willing to if it were more convenient to do so in their community, according to a new survey conducted online among more than 2,000 adults in December by Harris Interactive and commissioned by the National Waste & Recycling Association, the trade group representing America's private-sector waste and recycling industry.

However, the survey also found that 62 percent would not support an increase in the cost of their waste and recycling service, either in the form of a separate fee or an increase in taxes, if necessary to support separate food and yard waste collection and processing.

"Waste and recycling experts agree that increased conversion of organics into either compost or energy sources is an evolving trend in our industry," said Sharon H. Kneiss, president and CEO of the National Waste & Recycling Association. "While America's waste and recycling industry has developed innovative composting technologies, there are hurdles inhibiting such changes. Challenges include the collection and transportation of food waste and the siting of food waste composting facilities more broadly. But a far greater hurdle inhibiting an organics revolution may involve a lack of understanding by the American public about the value of such a change."

Major findings of the survey include:

- More than three-quarters of Americans (77 percent) say that they understand the importance of implementing a separate management process for food/yard organic material waste instead of disposing of it with general household waste.

- More than two-thirds of those who do not compost via community programs (68 percent) say they would be willing to manage another bin to separate food waste from recyclables and other trash if their community implemented a program requiring them to do so.

- Among Americans who have gardens or a yard, 4 in 5 (79 percent) say they would be willing to use gardening fertilizers, mulch and other products made from food waste compost.

This survey was conducted by Harris Interactive on behalf of the National Waste & Recycling Association among 2,051 adults ages 18 and older.

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WASTE

EPA takes step to implement Hazardous Waste Electronic Manifest Establishment Act

The U.S. Environmental Protection Agency (EPA) issued a final rule that is a crucial step in the development of a national electronic manifest (e-Manifest) system, which will upgrade the current paper-based system of tracking hazardous waste to an electronic one.

Mathy Stanislaus, EPA assistant administrator for the Office of Solid Waste and Emergency Response, said, "Once fully implemented, the national e-Manifest system will provide greater access for emergency responders to information about the types and sources of hazardous waste that are in transit between generator sites and waste management facilities."

The final rule authorizes the use of e-Manifests to track hazardous wastes under the Resource Conservation and Recovery Act. This will allow the current process, which requires paper forms, to be streamlined and greatly reduce the millions of paper manifests produced each year.

The Hazardous Waste Electronic Manifest Establishment Act requires EPA to issue a regulation authorizing the use of electronic manifests as the legal equivalent of the current paper manifest forms used to track shipments of hazardous waste from a generator's site to the ultimate site of disposal. EPA's goal is to promote the greatest possible use of electronic manifests.

The e-Manifest program is the vanguard of the agency-wide initiative to develop new tools to reduce the reporting

burden on regulated entities, and provide the agency, states and the public with easier access to environmental data. EPA estimates the national e-Manifest system will ultimately reduce the burden associated with preparing shipping manifests by between 300,000 and 700,000 hours, and result in cost savings of more than \$75 million per year for states and industry. In line with the agency's e-Enterprise principles, the e-Manifest system will significantly improve access to higher quality and more timely waste shipment data, and will empower communities through increased transparency and more accurate information on completed waste shipments and management trends.

The final rule will establish the legal and policy framework for using electronic manifests; however, several more steps will be needed before the e-Manifest program can be implemented. These include establishing the system and initial fee structure. This year, EPA will work with states, industry and other stakeholders to develop plans for many key aspects of the system and address concerns of intersystem compatibility. The Agency will also begin developing the initial fee structure of the system, including implementation and compliance dates, through a rulemaking. Stakeholders and interested parties will have the opportunity to comment on the proposed rule when it becomes available.

California introduces green waste diversion bill AB 1594

California Assembly member Das Williams introduced AB 1594, which would encourage local governments to divert their green waste from landfills.

Compostable organic materials currently comprise about one-third of what is disposed in landfills annually. Much of this material is used as alternative daily cover (ADC), a temporary overlay on an exposed face of a landfill, which provides a barrier from odor and insects at the end of the work day.

Williams said green waste should be used as compost instead.

"Global warming is the moral issue of the next hundred years," Williams said.

"The major question is: Are we willing to change business as usual to avoid profoundly hurting less fortunate people around the world and in our own country? These materials should be properly composted so we as a state can reduce our contribution to global warming."

Existing law authorizes green waste to be used as an alternative daily cover and exempts green waste from a statewide disposal fee. This exemption, with the recycling credit local governments receive toward their diversion goals, ends up encouraging the use of green materials for ADC instead of other more environmentally friendly uses.



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WASTE

New York City partners with WM on organics

New York City Deputy Mayor Cas Holloway, department of environmental protection (DEP) commissioner Carter Strickland, and sanitation commissioner John Doherty disclosed two new partnerships that will reduce the amount of organic waste sent to landfills, produce a reliable source of clean energy and improve air quality.

Waste Management has begun delivering pre-processed organic food waste to the Newtown Creek Wastewater Treatment Plant where it is added to wastewater sludge to increase the production of biogas. In addition, a first-of-its kind project with National Grid will convert the biogas by-product into pipeline quality renewable natural gas for residential and commercial use. Together, these projects have the potential to produce enough energy to heat nearly 5,200 New York City homes, reduce annual greenhouse gas emissions by more than 90,000 metric tons and help city government reach its goal of reducing municipal greenhouse gas emissions by 30 percent by 2017.

Biogas, which is mostly methane, is a by-product of the wastewater treatment process. Methane is also the main component of natural gas. DEP currently reuses approximately 40 percent of the biogas produced at the Newtown Creek Wastewater Treatment Plant, and the new partnership with National Grid will

ensure that 100 percent of it goes to beneficial reuses and does not contribute to greenhouse gas emissions from the plant. National Grid will finance the design, construction, operation and maintenance of the biogas purification system, and initially DEP will provide the biogas free of charge. Once project costs have been recouped, profits will be split between DEP and National Grid's customers. Construction of the purification system will begin in 2014 and is expected to be completed in 2015.

Over the summer of 2013, Waste Management's Varick I transfer facility in Brooklyn began processing organic food waste collected from local schools into a liquefied feedstock using the company's Centralized Organic Recycling equipment process. The feedstock is delivered in sealed tankers to the Newtown Creek Wastewater Treatment Plant where it is added to wastewater sludge to produce additional biogas. Waste Management is currently processing 2 tons per day of organic waste at the Varick I facility and plans to increase its volume to 5 to 10 tons per day during the initial pilot phase, with the potential to raise capacity to 250 tons per day over the next 3 years. If the pilot proves successful, there is the potential to process up to 500 tons of organic food waste per day at the Newtown Creek Plant.

Hagenbuch grants patent license for RFID-based refuse container collection

Inventor and entrepreneur LeRoy G. Hagenbuch has granted a non-exclusive license related to a portfolio of patents directed to radio frequency identification (RFID)-based refuse container interrogation and collection.

Toter LLC is a waste management company in Charlotte, North Carolina. Toter is the second party in the U.S. authorized to sell systems, such as its SmartWay III System, under Hagenbuch's patents. Hagenbuch said he intends to continue enforcing his patents in the waste industry, but is willing to grant licenses under his patents on reasonable financial terms.

The patents licensed to Toter generally relate to the use of RFID tags embedded in refuse containers such as household carts or larger containers and bins. Collectively, those patents cover, among other things, processes for refuse collection whereby records are generated for cart loading location, the identity of the cart being loaded, the time of collection and/or the weight of material in the carts being loaded. Some or all of

this information may be downloaded to a central location and used for any number of purposes, including fleet management, customer billing and confirmation of refuse container pickup.

In addition, a number of the patent claims cover refuse collection processes designed to ensure that a collection event is recorded only when the contents of a cart are actually loaded into a haulage vehicle. This helps waste and recycling collection companies avoid false positives, which can occur where a vehicle interrogates a refuse cart but loading does not occur.

Hagenbuch has obtained more than 60 patents in the U.S. alone. Included in the portfolio of patents licensed to Toter are U.S. Patent Nos. 5,327,347, 5,416,706, 5,631,835 and 5,644,489. In addition to Toter, licensees of his technologies and patents have included Otto Environmental Systems North America Inc., Caterpillar and Komatsu, among others. Hagenbuch is the Co-Founder of Philippi-Hagenbuch, Inc., Peoria, Illinois and serves as its chief engineer.

Maui mayor signs integrated waste conversion agreement

Maui Mayor Alan M. Arakawa executed an agreement with the Maui Resource Recovery Facility, LLC, to finance, design, construct, own and operate a state-of-the-art resource recovery facility, which will divert approximately 85 percent of the county's municipal solid waste from disposal in the Central Maui Landfill. The facility is anticipated to be fully operational in 2017.

In addition to dramatically increasing diversion, the facility will include a "recyclable materials recovery facility" to separate recyclable materials. The waste then will be further separated into digestible organic fraction and residual matter.

The organic fraction will go to a closed anaerobic digester, which will produce renewable natural gas and other mar-

ketable commodities. The residual matter will be processed into a clean solid fuel that can be used to replace imported coal. The facility's power needs will be largely met by creating electricity using the landfill gas and renewable gas as a fuel source.

Anaergia specializes in recovering value from waste for the municipal, industrial and agriculture sectors worldwide, and has included a team of Hawaii-based partner firms for development, construction and operation of Maui Resource Recovery Facility. The project will provide an estimated 150 construction jobs and up to 40 operations jobs, and has received significant support from the trades unions, members of the community and environmental organizations like National Resources Defense Council.

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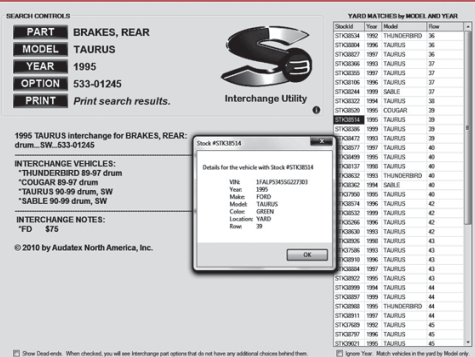
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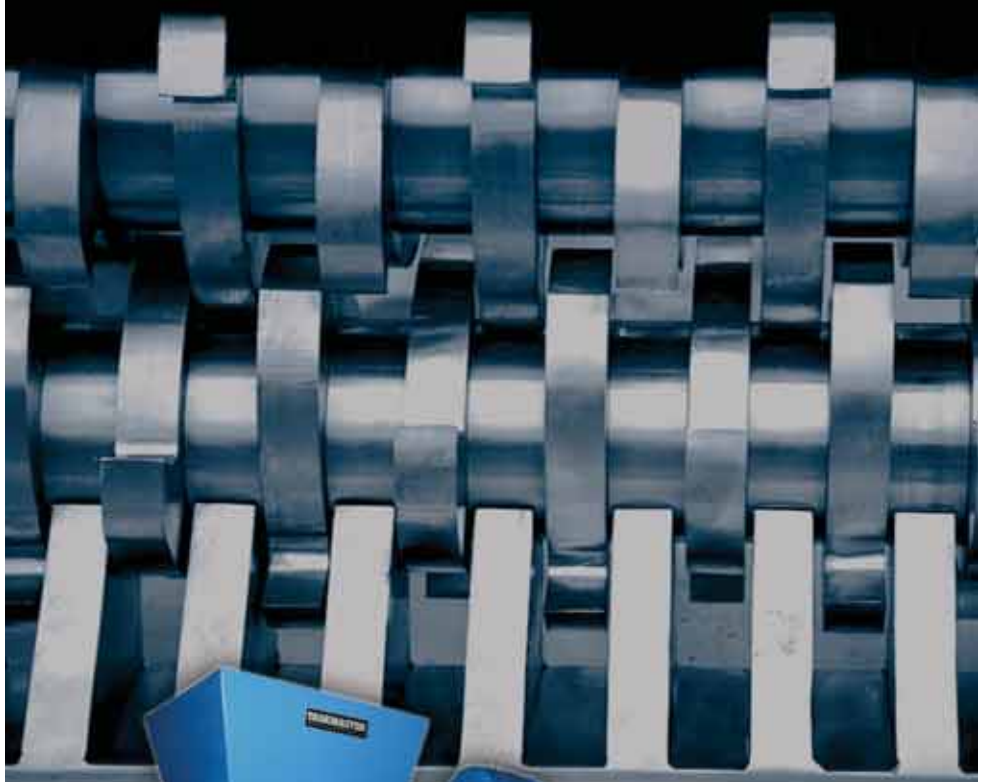


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BUSINESS BRIEFS

Rehrig Pacific expands roll-out cart production

■ Rehrig Pacific Company has added roll-out cart production to its Orlando, Florida plant. Rehrig Pacific will have roll-out cart production capacity in the facility during the first half of 2014.

The company has been actively serving the Florida market over the past 8 years by producing both 14 and 18 gallon recycling bins in Orlando. In 2010, the Florida Legislature passed a bill requiring the State of Florida to achieve a recycling rate of 75 percent by 2020. At that time, it became apparent that single stream recycling would be one component in that effort.

Gilliland joins VIC Electrical Engineering

■ Vecoplan Integrated Controls has added Henry Gilliland to its electrical engineering team. Gilliland brings three years of practical experience to his new position at VIC. Working first on a co-op basis at Highland Industries while pursuing his undergraduate degree from North Carolina State, and then upon completion, as a full time engineer with the company.

Gilliland's responsibilities will include working with senior engineers to coordinate the design and development of individual machine control panels and turnkey integrated control systems for industrial processing lines and manufacturing plants. In order to ensure continuous quality control, he will also be a team member overseeing the manufacture and implementation of projects once the engineering phase has been completed.

Lindner America adds sales managers

■ In 2014 Lindner America enlarged their product portfolio with the mobile shredding division. This new product range will be managed by Don Cotrona, from Connecticut, who brings to Lindner America many years of specialized experience within the mobile shredding industry. Cotrona will be responsible for establishing the new product throughout North America and forming a dealership network in the mobile division.

Additionally, Lindner has named Mark de la Salle as its new sales manager for the plastics division.

De la Salle, from London, England, brings to Lindner America several years of technical sales experience from various industries. He will be responsible for sales development within North America, tasked with expanding the plastic division's dealer network and maintaining the high standards of customer service and satisfaction provided by Lindner America.

SICON adds new sales manager

■ Peter Wilbert will be the new sales manager of SICON GmbH. He will also decisively shape the future of product development and project management in the internationally aligned company.

Before joining SICON, Wilbert worked for Metso Lindemann GmbH in Dusseldorf as vice president of shredding. He was responsible both for the development and construction of shredding machines and dedusting systems.

Mills named as director of law enforcement outreach

■ The Institute of Scrap Recycling Industries (ISRI) has hired Brady Mills to act as director of law enforcement outreach. In this new role created by ISRI, Mills will be responsible for working with the recently formed Law Enforcement Advisory Council to develop and implement a law enforcement training program as well as coordinate outreach with the law enforcement community.

Mills recently retired from the U.S. Secret Service after more than 27 years. He began his career in the Secret Service in 1986 in the Detroit Field Office followed by field assignments in the Washington and Fresno offices, and as Resident Agent in Charge of the Sacramento office.

From 1994 through 1998, he served on the Presidential Protective Division, including a period as team leader on the Counter Assault Team. From 2006 through 2012 he held headquarters assignments in the Inspection Division and the Office of Training at the Rowley Training Center. Mills ended his career with the Service as the special agent in charge of the Secret Service Liaison Division. Prior to his career with the Secret Service, Mills served as a trooper for five years with the Pennsylvania State Police.

Virginia waste association names new leadership

■ The Virginia Waste Industries Association (VWIA), the state's chapter of the National Waste & Recycling Association, disclosed its new leadership officers for 2014 and 2015.

Tad Phillips, general manager of TFC Recycling in Chester, was elected as VWIA Chapter chair. Phillips, a 35-year industry veteran, takes over for Bob Kania of Waste Industries.

Tim Loveland, general manager of Republic Services Inc. in Richmond, was elected vice chair. Mike Dobson will serve as the regional manager of the organization.

VWIA also elected Tommy Stump, president and chief executive officer of First Piedmont Corp. in Chatham, to serve as the chapter's representative to the operators advisory board of the National Waste & Recycling Association. Lisa Kardell, director of public affairs for Waste Management, Inc. in Washington, D.C., will serve as Stump's alternate.

Kardell was also named chair of the chapter's membership committee. Joining her as elected chairs of VWIA committees are Dobson (fundraising); Rodney Rosebrough of Waste Industries (financial); Leonard Joyce, Jr. of Joyce Engineering (legislative); Bob Dick of SCS Engineers (regulatory and environmental stewardship); and Aaron Gilman of SCS Field Services (communications). Gilman will also serve as editor of the VWIA newsletter, Virginia Waste Connection.

Q: How do you make the number seven even?

A: Drop the "s."

EPA names regional administrator for Region 4

■ U.S. Environmental Protection Agency administrator Gina McCarthy disclosed the selection of Heather McTeer Toney as regional administrator for EPA's regional office in Atlanta, Georgia. EPA Region 4 includes Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and six tribal nations.

McTeer Toney was the first African-American and first female to serve as the mayor of Greenville, Mississippi, holding that post from 2004 to 2012. She joins EPA from Mississippi Valley State University, where she is the executive director of the Center for Excellence in Student Learning. She is also the principal attorney at Heather McTeer, PLLC.

McTeer Toney's private-sector success is complemented by considerable experience in local and state politics. She began her career working as a member of McTeer and Associates Law Firm and handled a diverse group of cases ranging from racial discrimination to medical malpractice. Later she served as the president of the National Conference of Black Mayors and in 2009, was nominated by former EPA administrator Lisa P. Jackson, to serve as the chairwoman of the Local Government Advisory Committee.

Midwest Fiber Recycling completes acquisition

■ Midwest Fiber Recycling has acquired Data Management Services located in Terre Haute, Indiana. The acquisition will combine Data Management Service's expertise with Midwest Fiber's recycling capabilities.

This merger will offer the Greater Wabash Valley area additional recycling services, while giving businesses the opportunity to reduce the amount of materials being sent to the landfill.

The companies' combined capabilities will lead to growth opportunities, creating more green jobs and diversifying the types of commercial materials that can be recycled.

Schreiner appointed electrical service manager

■ Andrew Schreiner II has been promoted to electrical service manager at Vecoplan LLC.

Schreiner will oversee all aspects of electrical service on Vecoplan controls and control systems throughout North America. Responsibilities of his new position include providing troubleshooting service to customers and service technicians in the field, via phone and internet. Schreiner will also oversee the organization and scheduling of Vecoplan's network of certified service personnel throughout North America.

Formerly electrical department supervisor at Vecoplan, Schreiner has over 15 years of practical experience in the supervision of personnel in electrical production and maintenance for the industrial sector.

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BUSINESS BRIEFS

Tom O'Brien to step down as IAA CEO; Kett steps in

■ Carmel, Indiana-based KAR Auction Services, Inc. disclosed that Tom O'Brien, chief executive officer of Insurance Auto Auctions, Inc. (IAA) and a director of KAR's board, will step down as CEO of IAA effective April 30, 2014. O'Brien will remain a member of the company's board of directors until the company's next annual meeting of stockholders to be held in June 2014, at which time he will retire from the board. John Kett, currently president and chief financial officer of IAA, will assume the role of chief executive officer and president on May 1, 2014.

Kett joined IAA in 2001 as senior vice president of planning and business development, becoming chief financial officer in 2007 and assuming the role of president in 2011. Prior to joining IAA, Kett served in a variety of senior financial and operational roles for Central Steel and Wire Co., Safelite Glass Corporation, Newark Electronics and Deloitte LLP.

AMCS Group acquires PC Scale Technologies

■ AMCS Group has acquired PC Scale Technologies (PCST), of Oxford, Pennsylvania, a provider of software and technology solutions for the industry in North America. AMCS Group will become the largest provider of software solutions to the recycling and waste industry.

The new division will be led by PCST's current COO, Ken Good.

Barry Equipment named Peterson dealer of the year

■ Peterson Pacific has named Barry Equipment, Co. of Webster, Massachusetts, as their 2013 Dealer of the Year. This is the second time in two years that Barry Equipment has won the award.

Barry Equipment Co., Inc. was established in 1985 and is a family owned and operated equipment dealership.

Advanced Disposal completes acquisition

■ Advanced Disposal has completed the acquisition of certain assets of M.A.S.S. Services, Inc., doing business as The Dumpster Company.

The acquisition includes 600 residential customers who will be serviced by Advanced Disposal's Ball Ground. The waste will be disposed of at Advanced Disposal's Eagle Point Landfill.

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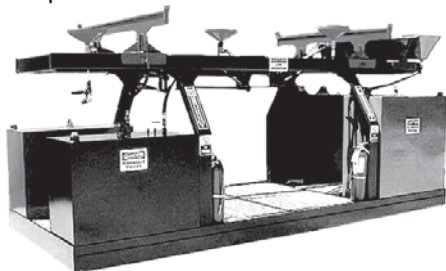
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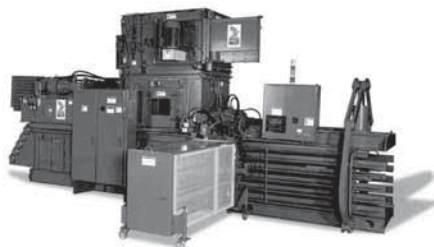
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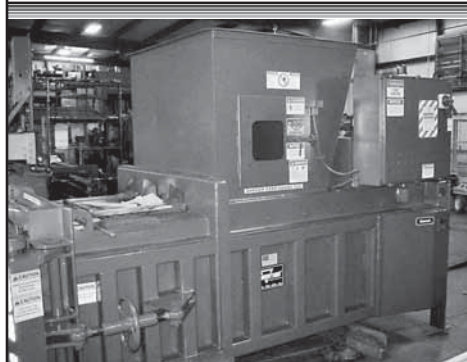
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American dream turns nightmarish in Florida

by MIKE BRESLIN

mbreslin@americanrecycler.com

Metal theft is a serious problem and one of the fastest growing crimes in the country. Copper, aluminum, nickel, stainless steel and scrap iron have become an easy target for thieves looking to make a quick buck. The only proven way to combat metal theft is to have metal recyclers work hand-in-hand with law enforcement to catch metal thieves. Most recyclers do follow their state's laws, obtain complete identity information from sellers and report suspicious transactions.

But what happens when good faith efforts by recyclers aren't enough? What happens when law enforcement officials don't understand the laws they're supposed to enforce? Oscar Rodriguez, owner of Atland Recycling, Inc. in Okeechobee, Florida, and his wife Liza, found out firsthand.

The Rodríguezes' personal story is compelling. Both were refugees from Cuba who escaped from a dictatorial regime for freedom in the U.S. and a chance at the American Dream, where hard work pays off and fairness under the law is a cornerstone of liberty.

Both were born, raised and educated in Cuba. Liza was a chemical engineer and Oscar a mechanical engineer. In 1993, Oscar tried to escape to the U.S., was caught by Cuban officials, and spent a year in jail as a political prisoner.

In 1995, both applied for the U.S. green-card lottery which awards permanent-residence visas to a small fraction of the millions of applicants who apply each year. Luckily, Liza won a lottery visa. They were married in Cuba before immigrating to the U.S. in 1998.

Living in Miami, they immediately went to work. Liza attended night school and in three months earned her pharmacy certification. Oscar worked in the trucking industry and eventually became an owner-operator of a small fleet of trucks. While working, Liza continued her education at Barry University where she earned a bach-



The owner of Atland Recycling recently found himself embroiled in Florida's legal system. He was charged with dealing in stolen property, despite going above and beyond the reporting requirements imposed by Florida law.

elor's degree in healthcare administration, and then went to Nova Southeastern University for a Master's in business administration with a concentration in finance.

In 2006, after years of hard work and saving, they obtained a loan from the Small Business Administration and purchased Atland Recycling. At the time of purchase, Atland was junkyard and a failed business. From there, the Rodríguezes built Atland into a highly successful business that today employs 15 people and is the leading metal recycler in their area. Oscar runs the business while Liza has been working on becoming certified as a financial advisor and auditor.

But on September 25, 2012, both Oscar and Liza were arrested by Detec-

tive Mark Shireman of the Okeechobee County Sheriff's Office (OCSO) and charged with dealing in stolen property – a felony offense under Florida law.

Gary S. Betensky, who is board certified in business litigation by The Florida Bar and is a shareholder in the law firm of Richman Greer, P.A. in West Palm Beach, Florida has been corporate and litigation counsel to Atland for over 10 years. Betensky retained Kevin Gors, co-founder of Seal-Mar, a licensed security, investigation and training company operating in Florida and California, to investigate the events surrounding the criminal proceedings against Atland's owners.

"I was called upon by the Rodríguezes' corporate counsel to do an investigation. In my 37 years' experience

in law enforcement, I've never experienced something like this – a genuine legal nightmare," said Gors.

Gors detailed the factual background of the case. The property at issue in the criminal case turned out to be a trailer and forklift that was sold to Atland as scrap for \$700. Atland processed the transaction in accordance with Florida law. In fact, Atland went above and beyond what was required by law, and registered the transaction with LeadsOnline, the nation's largest online investigation system used by law enforcement to recover stolen property, reduce metal theft and solve crimes.

Atland had a long-time client who saw the forklift and offered to buy it. Atland sold it for the same price they

See INJUSTICE, Page 7

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A Letter from the Editor

Readers,

This month's Focus cover story is one that I find particularly fascinating. It's a story of a business that did everything right – and in fact, went above and beyond what was required by law – and yet was still forced to defend itself in our expensive, Byzantine legal system.

There is no denying that scrap theft is a very real problem. I'd wager that most of you know someone or someplace that has been affected by scrap theft in some way. The vacant house two doors down from mine was hit by scrap thieves who destroyed the interior walls to cut out the copper piping.

Not only did the bank that owned the home suffer a loss as a result, the eventual sale of that home at a discounted price will adversely affect the value of my home, and every other house in the neighborhood.

But here's the thing: I don't blame scrap yards for the theft. The yard owners/operators didn't don masks and plunder that home. They don't go out at night and pry up storm covers or hijack air conditioning coils.

Criminals do that. And if they weren't engaged in scrap theft, they'd find other illegal means to obtain money.

So why, then, are our legislators punishing yard owners instead of the actual criminals doing the thieving and damaging? There are already laws in every state that criminalize theft and property damage – the records keeping and reporting requirements, with criminal penalties for non-compliance, only penalize those individuals who are simply trying to run a business and make an honest profit.

And receiving stolen property is already illegal in most jurisdictions as well. If police can prove that a yard operator knows or should have known that material was stolen, then they can charge them without a whole slew of new reporting laws on the books.

The bottom line is that laws only constrain the behaviors of those individuals who are generally law-abiding. Criminals, by definition, tend to disregard the law. Implementing reasonable measure to catch thieves is fine and dandy – but it seems fundamentally unfair that the burdens of enforcement, both legal and monetary, fall to private business owners.

Be careful out there.



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Shredder cooling can protect investment

contributed by **BRUCE WILLIAMS**

news@americanrecycler.com

The scrap industry has produced significant new tools to increase throughput and productivity of the modern recycling yards. We now have the ability to reduce entire vehicles to shredded materials that have been sorted and categorized for reuse. Many of these new tools require cooling to keep them from failing prematurely. For example, a new shredder requires significant cooling to protect the sophisticated controls from overheating, the hydraulics from overheating by keeping the oil at an acceptable temperature, the motor from overheating, the windings and bearing from failing too soon and finally even the compressors that can help sort the chaff from the end product. Many times the cooling systems are overlooked or minimized in the purchase process of these valuable new assets.

The manufacturer of each new shredder has specified the heat load and the temperatures required to adequately cool the shredder, but how will you make that happen? What type of cooling system is right for your location? What is the least expensive system based on operating costs and maintenance for your cooling system? The following can help you with the basic types of cooling systems to enable a better understanding of how they operate.

There are six basic types of liquid cooling systems:

- A liquid to liquid cooling system (PCX).
- A closed loop dry system (CD).
- A closed loop dry system with trim cooling (CDT).
- A open loop system (OE).
- A closed loop evaporative system (CE).
- A chilled water system (CW).

The simplest of these systems is a liquid to liquid cooling system (PCX). In this type of system your plant has an abundance of some type of cooling liquid already available but you do not want to provide this coolant to the shredder. It uses an intermediate heat exchanger and a coolant such as glycol and water on the other side of the intermediate heat exchanger in a closed loop to cool the shredder. The heat is exchanged through the intermediate heat exchanger without fouling the load heat exchangers. The strength of the PCX system is that it is relatively inexpensive to purchase and install. The components can be installed inside or outside. The PCX system is inexpensive to operate with only the closed loop pump using any additional energy. Maintenance is relatively simple on a PCX system demanding only a periodic inspection, lubrication, and cleaning of the heat exchanger as necessary.

A closed loop dry system (CD) is very much like the radiator in your car. The CD system uses an air cooled fluid cooler to transfer the heat from the closed loop coolant fluid pumped through rows of finned tubes that have ambient air blown/drawn across them.

The basic components to a CD system are the fluid cooler, which contains the air to liquid heat exchanger with the fan/s, the pump and control skid, the coolant, and the field installed system piping.

A closed loop dry system with a trim cooler (CDT) is the same as the CD, but adds a supplemental fluid cooler. This system is typically used in a location that has too high of a dry bulb in the summer to provide the proper coolant temperature to the load. With an added liquid-to-liquid trim cooler the customer can use a water source to trim the temperature to the desired set point. Many times CDT systems are used to reduce the reliance on city water as a coolant.

The next system, an open loop evaporative cooling system (OE) is completely different than the first three listed above. This system has the ability to use the design wet bulb as the basis for the outlet temperature of the cooling water. For example if the design dry bulb for the location is 95°F and the design wet bulb is 75°F the OE system can provide approximately 82°F water to the load. The OE system cascades water through the honeycomb PVC fill material in the tower along with ambient air blown or drawn through the fill to evaporate the water. During the evaporation the remaining water is cooled to as close as 7°F or higher above the wet bulb temperature. The evaporated water is replaced with some type of make-up water system like a float valve. The

See **COOLING**, Page 3



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Recycling industry forms law enforcement advisory council

The Institute of Scrap Recycling Industries (ISRI) has assembled a Law Enforcement Advisory Council – a select group of experienced law enforcement officers, prosecutors and security personnel from around the country with an understanding of the metals theft issue. The Council will advise ISRI in the development of a comprehensive program to address metals theft, including a multi-layered training program to assist law enforcement. The group held its first organizational meeting in Washington, DC.

“The recycling industry has long been on the front lines as part of the solution to metals theft, working closely with local law enforcement and prosecutors to deter crime and creating a nation-

wide scrap theft reporting system to help in the investigation and capture of thieves,” said Robin Wiener, president of ISRI. “The establishment of the Law Enforcement Advisory Council is part of an even more advanced, comprehensive approach by the industry to address the problem of metals theft through training and greater outreach efforts. We look forward to working closely with this group of law enforcement professionals and relying on their expertise to design an outreach and training program to effectively assist local law enforcement in combating metals theft.”

The following individuals serve on ISRI’s Law Enforcement Advisory Council:

- Rick Arrington CPS, NCPS II – Virginia Department of Criminal Justice Services, Division of Law Enforcement – Crime Prevention, Richmond, Virginia.

- RenEarl Bowie – Assistant Director, Texas Department of Public Safety, Austin, Texas.

- Willis Allan Brown – Union Pacific, Colorado Division Director Police, Denver, Colorado.

- Fred Burmester – Deputy District Attorney – Salt Lake County, Salt Lake City, Utah.

- Colonel Hugh T. Clements, Jr. – City of Providence Police Chief, Providence, Rhode Island.

- Terrence Cunningham – IACP vice president, Chief of Police, Welles-

ley Police Department, Wellesley, Massachusetts.

- Bethanna Feist, Assistant Attorney General, State of South Dakota, Pierre, South Dakota.

- David Hempen – manager, Business Continuity and Security Investigations, MidAmerican Energy Company, Des Moines, Iowa.

- Sheriff Aaron D. Kennard (retired) – executive director, National Sheriffs’ Association.

- Jerry Uhler – Southern California Edison/Edison International, Corporate Security, Rancho Cucamonga, California.

Cooling

■Continued from Page 2

remaining water and the make-up water are collected in a basin and then pumped to the load and the cycle repeats.

A closed loop evaporative system (CE) is somewhat of a hybrid between a CD and an OE system. The closed loop evaporative system is an open tower with a closed loop heat exchanger built into the tower. The tower water stays outside in the tower and does not circulate through the coolant piping. The coolant piping is a closed loop, with a glycol/water solution flowing from the CE tower to the load and back. The separate tower water is pumped from the basin to the top of the tower and sprays across the heat exchanger (normally an array of tubes) with air blown or drawn through the tower across the heat exchanger where evaporation of the water transfers the heat from the closed coolant loop to the ambient air. The remaining tower water falls to the basin where it is again pumped up to the top of the tower and repeats the process. The CE system tower water requires make-up water, chemical treatment, a drain, a cold weather basin heater and blow-down just like the OE system discussed above.

The last type of cooling system is the chilled water system (CW). A chiller normally has a mechanical compression device that converts energy into compressed refrigerant by using some type of compressor. The compressed refrigerant is piped to a condenser that rejects the heat from the refrigerant to the atmosphere or some type of liquid coolant. The compressed refrigerant changes state from a gas to a liquid in the condenser and is piped to an evaporator where it is metered or expanded in the evaporator. The expansion of the high pressure liquid refrigeration reduces the temperature of the evaporator. The liquid to be cooled is pumped through the evaporator heat exchanger and heat is transferred to the refrigerant. The low pressure vapor is carried back to the compressor and the cycle begins again for the refrigerant. The coolant flows from the evaporator heat exchanger to the load where the heat is transferred to the coolant in the load heat exchanger and then returns back to the evaporator to repeat the cycle.

There are many types of cooling systems available to satisfy your requirements. It is best to involve your cooling system specialist early in your planning to help you choose the best system to fit your needs.

We never really grow up, we only learn how to act in public.

—Bryan White

CAR CRUSHER BUYING GUIDE

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	OverBuilt	COMPETITION A	COMPETITION B
STANDARD CRUSHERS			
What is the size of the opening (length & height)?	20'3" L x 10' H	___' L x ___' H	___' L x ___' H
What is the setup time?	NONE	_____	_____
Do you use weather-tight electrical connections for automation controls and trailer lights?	YES	Yes / No	Yes / No
Does the crusher have fenders on the front of the machine?	YES	Yes / No	Yes / No
Are the guide frames tied at the top?	YES	Yes / No	Yes / No
How big is your fuel tank?	400 GALLONS	___ Gallons	___ Gallons
Do you have wear guides on the main cylinder pistons and glands?	YES	Yes / No	Yes / No
REMOTE CONTROL			
How quickly can you get me a replacement automation system?	NEXT DAY	_____	_____
How long does it take to replace the receiver on the machine?	10 Minutes	___ Minutes	___ Minutes
Can I start and stop the engine with the remote?	YES	Yes / No	Yes / No
Does the remote have individual up and down cylinder control buttons?	YES	Yes / No	Yes / No
Do you use rocker switches to limit the up stroke of the cylinders?	YES	Yes / No	Yes / No
OPTIONS			
High Speed	YES	Yes / No	Yes / No
Maximum oil flow from your cylinders?	250 gpm	___ gpm	___ gpm
What is the maximum port size of the cylinders?	2.5"	___"	___"
Can I get an auxiliary fuel pump to fill my loader?	YES	Yes / No	Yes / No
SAFETY & HAZARDS			
Do the safety locks engage from the ground, without climbing on the machine or into the chamber?	YES	Yes / No	Yes / No
If one side of the lid is raised and the other side is down, will it damage the crusher?	NO	Yes / No	Yes / No
Does your waste oil recovery tank have sludge traps and large clean-out access panels?	YES	Yes / No	Yes / No
Do you have lockable cabinets for the:			
Engine controls	YES	Yes / No	Yes / No
Remote control	YES	Yes / No	Yes / No
Valves	YES	Yes / No	Yes / No
Auxiliary fuel port	YES	Yes / No	Yes / No

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EQUIPMENT SPOTLIGHT

Attachments

by **MARY M. COX**

maryc@americanrecycler.com

Whether it's a magnet, a grapple or a shear – attachments are integral to the metal recycling environment.

A new Iron Ax shear on the market has been named the "Big Mouth" because the shear's jaw opening, in relation to its weight, is larger than any other shear previously offered by the



Iron Ax

company. "This shear has a unique blade design that sets it apart from all other shears produced in America. All of the shear's 12 blades are the same size, and it has a two-piece piercing tip. These two pieces are symmetrical and can be used from either side or either end and allows the user to flip the tip without rebuilding it. There is a spacer at the point of the tip that keeps material from entering between the two halves of the tip. Each of the blades provides eight cutting edges per blade. The superior performance of this shear has been tested in our operation for the past year and is proven to be much lower in cost to operate than other shears in the market. Our shear's patented design also sets the Iron Ax shear apart from anything else that is offered to scrap metal recyclers," John Kitchens, vice president, stated.

Iron Ax owns and operates 5 scrap yards and they've been in business for 45 years. "Over 20 years ago, we started making products for use in our scrap operation and it was a natural transition to introduce our products in the marketplace. To survive in today's competitive environment, scrap yards must use the right equipment. We know the industry and what is needed to get a job done. We often see a production rate increase after an operator begins to use one of our shears. Scrap yard operators are looking for ways to get a leg up on their competition and our customers seem to really appreciate our unique perspective," said Kitchens.

Moley Magnetics manufactures scrap yard magnets, shears and grapples. Moley staff members often hear about two challenges that face most scrap recycling facilities: preventing the loss of tons of scrap to the dirt surface found in most facilities, and avoiding the loading of dirt into trucks meant to carry only scrap metal. Ron Slaby, sales manager, explained, "In either scenario, and after the bulk of the material is collected, operators then usually have an employee hand-pick and/or dig up what remains, or use a magnet to collect whatever scrap remains. Manually collecting the scrap can be difficult because material may still retain too much dirt and then be unfit for hauling to the mill. Using a magnet to gather only the material you want to load is an effective, inexpensive tool that can help increase profits. A Moley Magnetics ESB24V battery-operated magnet provides an owner with a low cost, powerful magnet that installs quickly and requires very little maintenance. Used properly, an ESB 24V magnet will pick up very large pieces right down to screws, nuts, bolt and nails. This will increase the bottom line and save some tires along the way as well."

The Pemberton-manufactured Power Picker® is a unique attachment for scrap yard use because it can pick and sort any material and it can also pull engines from cars and trucks. It was specifically designed as an excavator tool that can work the same as a pair of powerful, over-



Pemberton, Inc.

sized tweezers. The Power Picker is designed to sort/pick out wanted and unwanted materials. The attachment can pull most high value components – like wire harnesses, gas tanks, converters and tires – from scrap vehicles.

"This tool is ideal in landfills and large or small scrap yards. It is versatile and can be upgraded for use with the various materials it can maneuver. The Power Picker is also ideal for use with white goods, insulation and wiring. The



SAS of Luxemburg, Ltd.

tool may even help reduce the number of ground workers required in a yard operation. It can be very efficient and so enhances yard productivity and may reduce costs related to yard personnel injuries, insurance claims, workman compensation, payroll, taxes and labor inefficiencies," Mike Duffy, sales manager, said.

The Power Picker is fabricated out of high tensile materials and utilizes no additional hydraulics on the machine to

See Spotlight, Page 6

Manufacturer List

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www.aecmagnetics.com

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Chris Nichols
800-803-3365
www.aimattachments.com

Allied Construction
Greg Smith
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www.alliedcp.com

A-Ward North America
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Bateman Manufacturing
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David Palvere
715-395-5252
www.nextcom.com

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John Kitchens
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ISRI authors compliance guide to state scrap statutes

The Institute of Scrap Recycling Industries (ISRI) has released its first State Metals Theft Statutes publication, an online compilation of all state laws related to metals theft designed to help scrap recyclers with their compliance obligations under state law. Forty-nine states (Alaska being the exception) have passed laws intended to combat metals thefts, each with varying requirements that affect recyclers. The guide serves as a tool to help recyclers, law enforcement and other stakeholders better understand the laws that apply in each individual state, as well as an important resource to what other states are doing.

"In recent years there has been a wave of new legislation regarding metal theft across the country, often with multiple bills passed within any given state, making it extremely challenging for recyclers to stay on top of current requirements," said Robin Wiener, presi-

dent of ISRI. "ISRI's State Metals Theft Statutes publication serves as a guide to help recyclers understand their most up-to-date compliance requirements as the recycling industry continues its efforts to be part of the solution to the problem of metals theft."

The information will be updated throughout the year as new state laws are passed or amended. In 2013 alone, 28 states passed amendments to existing laws within their jurisdictions. In the coming months ISRI plans on supplementing this information with an interactive, searchable database of statutory requirements related to metals theft, which will be available on its website at www.isri.org and available to all stakeholders.

The release of this publication is part of ISRI's enhanced efforts to prevent metals theft.

Wm. Miller R2/RIOS certified

Wm. Miller Scrap Iron & Metal Co. has earned certifications for the R2:2013 and RIOS:2006 management systems. The history of Miller Scrap dates back to the early 1900's and today the company is operated by the fourth generation of Millers. Jerry Miller and his three sons Todd, Willie and Jeremy work together with their dedicated employees at their ten acre recycling facility located in Winona, Minnesota. They have baling, shearing, shredding, torching and sorting operations for ferrous scrap, nonferrous scrap, eScrap, eWaste and paper recycling. In

addition, the company operates a transfer station and has a brokerage division.

The Recycling Industry Operating Standard (RIOS) is the recycling industry's standard for quality, environmental, and health and safety management.

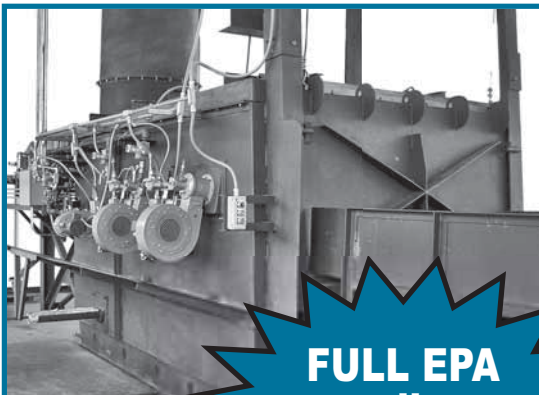
The Responsible Recycling (R2) standard encompasses RIOS and includes notable additions. In today's information age, R2 takes into account the importance of data and information security. In addition, the R2 Standard employs chain of custody tracking on all focus materials.

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A Closer Look

by Donna Currie

Recycling Services International

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Dave Conway has officially been in the furnace business since the mid-70s, and started his own business, Recycling Services International, in 1990, but he said that he has “always been around the recycling business.” He grew up on a farm and often brought farm scrap to a local scrap dealer. As a teenager, he made money by cutting up old farm equipment for other farmers and taking that material to scrap dealers.

Later, Conway started working for a company that made furnaces for recyclers. He said that the “big draw” to working there was traveling and meeting new people. He didn’t purposely set out to build furnaces or be in the recycling industry, but, he said, “It was a job and then it became my life.”

When he started his own company, he said that he enjoyed designing things and seeing them work. “It’s a challenge and that’s what I like.” The company makes different furnaces depending on the final use, as well as the customers’ needs. Aluminum-melting furnaces are larger than those for melting precious metals, and can hold up to 12,000 lbs. of molten aluminum.

When automotive parts with both aluminum and steel go into the aluminum furnaces, those furnaces produce high-quality ingot and also clean steel that can be sent directly to steel mills with no further processing. The furnaces designed for recovering precious metals don’t melt the metal at all – they burn off the resins and combustible materials so the metal can be recovered.

The furnaces designed for destroying PCBs from transformers have a 20-million BTU burner so the afterburner reaches 2300 degrees to eliminate any pollutants. The company also builds furnaces for melting lead off of copper wire and can also design and build furnaces for specific customer needs.

“When I started building furnaces,” Conway said, “I looked for maximum efficiency.” Now, his furnaces can produce more aluminum for half the money, but he doesn’t take all the credit for that. “It’s because of new technology – it’s not because I’m such a smart guy.”

The environmental issues are also one of his great interests, and he thinks that it’s a “joint venture cleaning up the air,” with the EPA, product designers and businesses all playing roles. “Recycling is a good thing,” he said.

Conway said his customers are his best salespeople, and that it’s not unusual for current customers to invite potential customers to their facilities to see the furnaces in action and to explain how they work. Some of his customers own more than one furnace.

He sells throughout the United States and he also ships overseas, but it’s not just about selling. When a customer receives a new furnace, they also get comprehensive training on how to use the furnace, how to maintain it and how to prepare reports for the EPA. That training usually takes about a week. “We have built-in diagnostics,” Conway said, which makes troubleshooting much easier after the training is done.

To help with EPA regulations and reporting, the furnaces are fitted with dataloggers that monitor the afterburners that burn off potential pollutants. Conway also provides the customers with a spreadsheet with formulas for reporting the information from the dataloggers.

Conway said, “It’s a lot of paperwork,” but it’s what needs to be done to stay compliant with the regulations, so his company does everything possible to make it easier for his customers.

While other countries might not have the same sort of rules in place, Conway said that he enjoys “helping other cultures that weren’t concerned about the environment” and seeing them become more aware of environmental issues.

The company has five employees who design and manufacture the burners and controls, while a fabricator builds the shell which is shipped separately to the customer, along with the lining material. The furnaces are built on the customers’ site, which takes about four weeks.

Conway said that since they started shipping the furnaces in pieces rather than fully assembled, they’ve had no warranty repairs. When the furnaces were shipped fully assembled, there was always a chance for damage during shipping.

While many of his customers are established in the recycling industry, recently he helped a startup business, including helping them with networking with others who could give them a hand. “If I don’t know something,” he said, “I know someone who does.” He was quite pleased to see that new business become a very successful startup.

Conway realizes that not every company treats its customers with that sort of care, but it’s part of his philosophy. “We build relationships,” he said, and he looks for vendors who take care of him the same way he takes care of his customers. Because of that, he has long-term relationships with many vendors – from sellers of simple nuts and bolts to those who make more complicated relays.

“We only use the best,” he said, “and only made in the USA.”

Manufacturer List

North American Attachments
Mike Miller
800-380-8808
www.excavator-attachments.com

NPK Construction Equipment Inc.
Steve Kubish
800-225-4379
www.npkce.com

Ohio Magnetics, Inc.
Ken Richendollar
800-486-6446
www.ohiomagnetics.com

Pemberton, Inc.
Mike Duffy
800-393-6688
www.pembertoninc.com

Rotobec USA
Mark Shukla
855-768-6232
www.rotobec.com

SAS of Luxemburg, Ltd.
Adam Lindley
877-890-5063
www.sasforks.com

Solesbee’s Equipment & Attachments
David Jenkins
770-949-9231
www.solesbeesequipment.com

Stanley LaBounty
Nathan Buckert
630-536-1402
www.stanleyhydraulic.com

Walker Magnetics
Kristian Knights
800-962-4638
www.walkermagnet.com

Winkle Industries
Mark Volansky
330-823-9730
www.winkleindustries.com

Spotlight

Continued from Page 4

operate it. There are heat-treated pins and bushings at all hinge points for extended wear life. Application of the attachment requires only standard pin on mounting and a mount plate which is welded onto the machine. The product is ideal for hydraulic excavators ranging in size from 18,000 to 55,000 lbs.

Adam Lindley, sales, said that SAS Forks offers the SAS™ Extreme™ grapple attachment, which is fast and easy to install. “Our grapple is engineered to pin to an existing dozer blade mount, utilizing the existing undercarriage hydraulics. It connects directly to a factory stick mount.” He explained that the product can be used to extract items such as copper wiring, radiators, heater cores, alternators, starters, aluminum condensers, a/c evaporators, intake manifolds, engines and transmissions.

Lindley said the SAS grapple is engineered and built for optimum performance. It features a rotating head with patented jaws that provide aggressive teeth for engine pulling; a needle nose-type tip for wire harness retrieval and the shape of the grapple allows it to maneuver in tight areas with speed and accuracy. There is a hard facing on the jaw teeth, hardened pins, bushings and grease-able pivot points to extend service life and the hydraulic cylinder on a rotating head is protected to minimize potential damage.

The attachment is best suited for rotational industrial equipment with a boom arm and two auxiliary hydraulic functions plumbed to the end of the stick for a rotating head with jaws. It offers an operating weight of 16 to 24 tons.

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Injustice

Continued from Page 1

paid. The client worked on the forklift but could not get it running properly, so he sold it to a used equipment dealer located next to Atland for \$1,000. The dealer's intent was to invest \$1,000 to \$1,500 more and maybe sell it for \$3,500 to \$4,500.

Meanwhile, however, the forklift was reported as stolen in another jurisdiction. There, the investigating officer turned to LeadsOnline, where he was able to find the transaction involving the stolen forklift that had been voluntarily reported by Atland. The Detective and the original owner of the forklift were then able to track its whereabouts to the used equipment dealer – where they discovered that it had originally been sold to Atland.

At that point, Detective Shireman of the OCSO was called in to take over the investigation in Okeechobee. The forklift was voluntarily surrendered back to the original owner, and Shireman began his investigation.

Atland showed Shireman all the proper paperwork – photo, fingerprints, copy of driver's license and signed affidavit for the transaction. Under Florida law, Atland was not required to report the forklift and trailer transaction through LeadsOnline. It was only due to Atland's going the extra mile and listing all its transactions that law enforcement even learned where to look for the forklift and trailer – a perfect example of a scrap metal dealer cooperating with law enforcement.

The actual thief was identified – a person with a long criminal record. He turned out to be a property manager for an out-of-state equipment company who had been stealing from his employer and had pawned or scrapped stolen equipment several times over many months.

Catching the actual thief, however, wasn't enough. Shireman wrote in his report that the trailer had been manufactured and the VIN number was missing, and therefore, Atland should have known the trailer was stolen. But according to Gors' investigation, this was contrary to a report taken by police in the jurisdiction where the theft occurred,

who reported that the owner had indicated that the trailer was homemade, and therefore had no VIN number to begin with.

But Shireman persisted, and proceeded under the theory that scrap dealers are only allowed to take in something that has nothing more than scrap value. In other words, if something has more potential value than the scrap value, then the recycler should know it was stolen and they should go to jail. He believed that no one would scrap a running forklift unless it was stolen.

But in many cases old forklifts are hard to find parts for, difficult to repair and are often written-off and scrapped. When Atland went back through their records history they were able to show Shireman numerous transactions for old forklifts they had purchased for scrap.

For all of Atland's cooperation and the lack of evidence of any wrongdoing, Shireman chose to charge Oscar and Liza regardless. And despite the seemingly open and shut case, once the charges had been filed, the Rodríguezes were at the mercy of the local legal system.

According to Betensky, "The Rodríguezes and Atland followed the law to the tee, meaning they did all the proper paperwork, and then some. They attended all the appropriate seminars, including the seminar that preceded the most recent revision of the statute. They understand the statute and followed it better than anybody I know of and therefore were immune from any prosecution.

"This whole thing was trumped-up to begin with," Betensky explained. "One element was that Detective Shireman just did not understand the law. When you combine Shireman's lack of knowledge of the law, and the fact that his supervisors allowed him to pursue this, it led to a complete travesty of justice and an unwarranted and baseless prosecution.

"The assistant state attorney pushed this case for 11 months, up until he had to face the judge on a motion to dismiss which had been filed by the Rodríguezes' defense counsel. On the day the motion was scheduled for hearing, the state attorney dropped the charges because he finally decided to do his own homework, rather than accept



The Rodríguez family poses for a photo during a Fourth of July celebration.

everything Shireman had been feeding him," Betensky concluded.

"After working the case, we determined as long as Atland did the proper paperwork according to statutes, there's nothing we can do," said Assistant State Attorney Rob Moeller. "Though there was a presumption that it was stolen, and they should have known it was stolen, all of the paperwork was in order which protects them under the law."

It took 11 months, but eventually, the charges against Oscar and Liza were dismissed. However, the damage to the Rodríguezes and their company is irreversible. The story of their arrest and imprisonment appeared in the general press, in trade journals and on the internet. The news affected their children, family, friends, community and local business associates. Even though the state eventually dropped the charges, that fact received little publicity.

"Nobody would like to do business with a person with an arrest record," said Liza. "It's really hard for us. What I learned since I left Cuba trying to be

away from a dictator, was that here in the United States the only thing we have done is to work hard and these guys treated us like they were dictators."

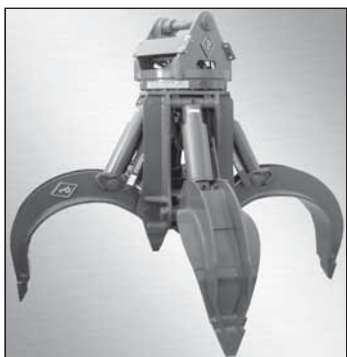
"It cost the Rodríguezes terribly, not only in legal defense and investigative costs, but their reputation in the business sense both domestically and with people they do business with overseas. Reputation is a very fragile thing. The fact they were arrested and jailed for a felony and faced imprisonment is pretty scary. You can't put a price tag on that," Gors commented.

Subsequently, Oscar and Liza Rodríguez filed a federal lawsuit against Detective Mark Shireman and two of his supervisors at the Okeechobee County Sheriff's Office for violating their civil rights, wrongful arrest, false imprisonment and malicious prosecution. They hope to right this wrong and are seeking substantial money damages.

Atland's experience was a tragedy and an anomaly, but should be a warning to scrap metal dealers to be extra vigilant and thoroughly understand, and follow metal theft laws in their jurisdictions.

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