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NewsVoice of Salvage, Waste and Recycling

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FOCUS: Metals

Recycling metal from nuclear facilities proposed



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Sustainability importance expands

by MIKE BRESLIN

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Since the 1950s, the old-fashion notion of “conservation” has expanded to be called “sustainability” and has become the buzzword synonymous with grand visions of environmental responsibility and lifestyle.

The word has now entered the common lexicon and is often featured by government, environmentalists, green businesses, recyclers and waste handlers. In the realm of ecology, sustainability describes how the earth can endure, remaining healthy and productive.

Since 1987 the most widely quoted definition of sustainability is that of the Brundtland Commission of the United Nations, “sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

Although the concept of sustainability can reach philosophical dimensions in balancing environmental, social and economic concerns, it is a practical issue for solid waste managers. It comes down to basic sanitation and the best ways to handle the garbage with the least danger to the environment.

Everyone seems to agree that protecting and improving



Newspapers collected in the City of Durham at its processor, SONOCO in Raleigh, North Carolina. Papermaking fibers can typically be recycled five to seven times before they become too short to be recycled again.

our potable water supply, sea and air quality and arable land is vital to sustainability.

On how best to achieve sustainability in waste management, however, there is disagreement. In theory, it is accepted that landfilling should be minimized. Yet today that is where nearly 60 percent of U.S. municipal solid waste (MSW) and the vast majority of construction and demolition debris and commercial waste go.

Many environmentalists would like to see most everything recycled, but that goal appears to be an impractical, economic impossibility.

The U.S. EPA estimates that the average American generates 4.6 lbs. of waste per day, but only recycles 1.5 pounds. Improvement is possible, but how much and at what cost?

Many advocates insist that incineration or waste-to-energy plants are an ideal

processing method and others see them as air-polluters.

Despite what many say, the EPA claims they are as clean as natural gas fired power plants with respect to emissions per megawatt hour. There are only 87 MSW-fired power generating plants in the U.S. and most were built over 15 years ago.

Converting waste into biofuels or using anaerobic digestion to make biogas or

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Green teams help USPS save millions

The U.S. Postal Service (USPS) saved more than \$52 million in 2012 by reducing energy, water, consumables, petroleum fuel use and solid waste to landfills, and generated nearly \$24 million in revenue by recycling. Together, these actions to save costs and generate revenue surpassed \$76 million.

Employee green teams played a key role in helping the Postal Service achieve the savings and revenue, part of which included nearly \$12 million in vehicle fuel cost avoidance, more than \$10 million in facility energy savings, water savings of nearly \$1 million and a decrease in supplies spending of nearly \$4 million. Green teams helped the Postal Service recycle more than 253,000 tons of material, which saved more than \$25 million in landfill fees.

“Across the country, postal employees are participating in more than 850

green teams,” said chief sustainability officer Thomas G. Day.

The teams help identify and implement low and no-cost sustainable practices to help the Postal Service meet the following goals by 2015:

- Reduce facility energy use by 30 percent compared to 2003.
- Reduce water use by 10 percent compared to 2007.
- Reduce petroleum fuel use by 20 percent compared to 2005.
- Recycle 50 percent of all solid waste compared to 2009.

The Postal Service buys sustainable materials and works to reduce the amount of supplies it purchases. The agency first developed a “buy green” policy nearly 15 years ago, and has a goal to reduce spending on supplies by 30 percent by 2020. Additionally, the Postal Service is working to increase the

amount of environmentally preferable products it buys by 50 percent by 2015. Environmentally preferable products are bio-based, energy and water efficient, eco-labeled or contain recycled material.

In its shipping supplies, the Postal Service uses post-consumer recycled content materials diverted from the waste stream, which benefits the environment and helps customers go green when they mail their packages with the Postal Service.

The Postal Service is the first federal agency to publicly report its greenhouse gas emissions and receive third-party verification of the results.

The Postal Service receives no tax dollars for operating expenses and relies on the sale of postage, products and services to fund its operations.



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Recycling Industries Congress showcases recycling's economic benefits

Pennsylvania's 2013 Recycling Industries Congress (RIC) was jointly sponsored by PWIA and the Pennsylvania Recycling Markets Center (RMC). Exhibitors ran the gamut from recycling processors to companies that turn recycled materials into new products such as rail-road ties, compost, nursery supplies, paper, flooring, food trays and drywall, among many others.

"It's quite evident that since 2011, when we held our first Recycling Industries Congress, that we not only have more recycling businesses taking part, but we are also seeing an amazing increase in the sophistication and economic significance of the ventures and enterprises represented," said Robert Bylone, president and CEO of the RMC.

This year's event also helped mark the implementation of Pennsylvania's landmark Covered Device Recycling Act.

As of January 24, disposal of electronic devices such as desktop and laptop computers, computer monitors, computer peripherals and television sets is no longer allowed in landfills and incinerators. Only recyclers certified by the Department of Environmental Protection (DEP) are now permitted to handle their disposal.

The theme of the Recycling Industries Congress was "Serving the Recycling Spectrum: Processing to Products."



DEP Secretary Krancer attends 2013 PA Recycling Industries Congress highlighting the economic importance of recycling in the Commonwealth. (From left to right: Mark Pedersen, president of the Pennsylvania Waste Industries Association; DEP Secretary Mike Krancer, and Robert Bylone, president and CEO of the PA Recycling Markets Center.)

The theme called attention to the fact that Pennsylvania's recycling industries are part of a spectrum, with collection and processing at one end and the manufacture of new products using recycled materials at the other.

PWIA represents private-sector waste haulers and landfill operators as well as recyclers and is the state chapter of the National Solid Wastes Management Association.

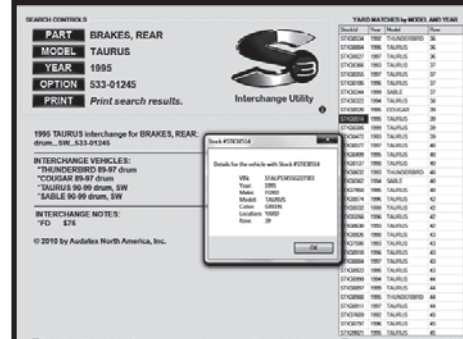
An economic study sponsored by PWIA found that the waste industry in

Pennsylvania generated nearly 31,500 jobs and contributed more than \$3 billion per year to the Pennsylvania economy in expenditures, purchasing, and spending from industry wages.

A study by the Northeast Recycling Council said 3,803 Pennsylvania establishments involved in or reliant on recycling or involved in reuse and remanufacturing generated 52,316 jobs with an annual payroll totaling of \$2.2 billion, while also bringing in gross receipts of \$20.6 billion.

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Sustainability

■Continued from Page 1

fertilizers is emerging technologies, but at best fractional solutions.

Nonetheless, California is now home to nearly 30 advanced biofuel companies and dozens of other states are beginning to realize the economic benefits of this emerging industry. Today there are more than 80 advanced biofuel companies, refineries and related operations located in at least 27 states.

What the future holds for fossil fuels is uncertain. Experts agree that the supply will run out someday and that day draws closer as developed and undeveloped countries continually demand more energy. Current estimates are that we have ample known resources for the next hundred years. Energy efficiency and renewable energy derived from wind, solar, tidal, small hydro and other clean sources are part of the sustainable solution.

Sustainability seems to be as elusive as perpetual motion, an ideal objective well worth pursuing, but impossible to fully achieve. For waste management professionals the job is a balancing act between the best sustainable methodologies and economic reality while continually searching for better solutions.

Waste management is a significant expense for most municipalities. An integrated waste management plan, which uses a variety of methods to manage municipal waste can help reduce the amount of waste a community generates, moderate the cost of waste removal, and alleviate landfill burden.

The Solid Waste Association of North America (SWANA) is an association of nearly 8,000 solid waste professionals in the United States, Canada and other countries with a mission of advancing the practice of management of municipal solid waste. American Recycler News asked Jeremy O'Brien, P.E. and director of applied research at SWANA about sustainability.

"As a trade organization, through our conferences, training and research we try to identify the performance and costs for different systems and help people understand the benefits and cost so they can make the best choice for their

local community. We don't set policy. Our overall mission is to improve the economic and environmental sound management of waste. Sustainability is a part of that."

"There are ways municipalities can do better, but those ways often cost more money. Economics often drive the systems to be less sustainable than they could be, ideally. The question is always whether the investment is worth the results. In the U.S. most of our systems are landfill based, except that recovered waste that has material or energy value. That's not the most sustainable way of managing, but the most economical way."

O'Brien said that in order to make recycling convenient, collect at the curb instead of requiring residents to carry it to a drop-off center. That collection requires energy and costs money whether in taxes or user fees. During the process we recover material, but in another sense it subsidizes the export of recovered materials.

"There's a lot of technology that you can use in waste management and some of them are pretty far out," O'Brien continued. There's a big push now to generate vehicular fuels from waste and there are big plants being built. This new trend is being driven by renewable fuel standards that some federal and state agencies have adopted. So now there's an interest to recover energy from waste in form of a fuel versus energy in the form of electricity. There are dozens of vendors out there approaching local governments and marketing these processes. The big questions are does it work and how much does it cost? One of our roles is to get the local managers up-to-date and accurate information on these technologies so they can make informed decisions."

"In my mind the most sustainable systems are ones that recycle materials that have an economic value and recovery energy from the non-recyclable portion of the waste stream. Another thing people interested in sustainability sometimes don't understand is whatever we don't recover we put in a landfill. As a result, these landfills will have to be managed and monitored for posterity due to the latent potential for this waste to biodegrade. In Europe they have decided to phase out landfilling of biodegradable waste and, as a result, the waste has to be thermally or biologically treated before it's landfilled so the mate-

rial is not reactive, but biologically inert. That's a very important environmental issue," O'Brien concluded.

Sustainability for waste management at the local level is of course a long-term incremental process that is slowly taking place across the country. One outstanding example is the City of Durham, North Carolina.

Durham is the fourth-largest city in the state with a population 233,252 – home of Duke University, North Carolina Central University and Research Triangle Park, the headquarters for the hi-tech Raleigh-Durham-Chapel Hill-Research-Triangle area.

Durham's solid waste management department partners with the community to provide exceptional customer service and waste collection, recycling and disposal services in a safe, efficient, cost effective and environmentally sound manner. The department enhances the appearance of the city and environment by providing collection of garbage, bulky items, recycling and yard waste. The department also operates a Hazardous Waste Center, Waste Disposal and Recycling Center and a Swap Shop to enable residents to divert recyclables and hazardous items from landfills.

Donald Long, director of Durham's solid waste management department explained their Ten Year Solid Waste Management Plan and Waste Reduction and Sustainability Program.

"We updated our 10 year plan 3 years ago when we started a new way of collecting recyclables. We used to do collections with a contractor, but we brought it in-house. We went from weekly 18 gallon recycle bins separated at the curb to 96 gallon single-stream roll carts with every other week collection. With the contractor we were paying nearly \$1 million a year. Now we are getting paid around \$300,000 a year.

"With the contractor, our participation rate was around 58 percent. That means on any given trash day, 58 percent of people who set out garbage carts were also setting out recycling bins. Now, our participation rate is just short of 90 percent. I would like to say our ultimate goal is to be at zero waste, but we are not there yet because we don't have a feel on what it's going to look like when we move to an organic recycling program. We are in the planning process of getting a new transfer station that we hope to be able to include a pilot

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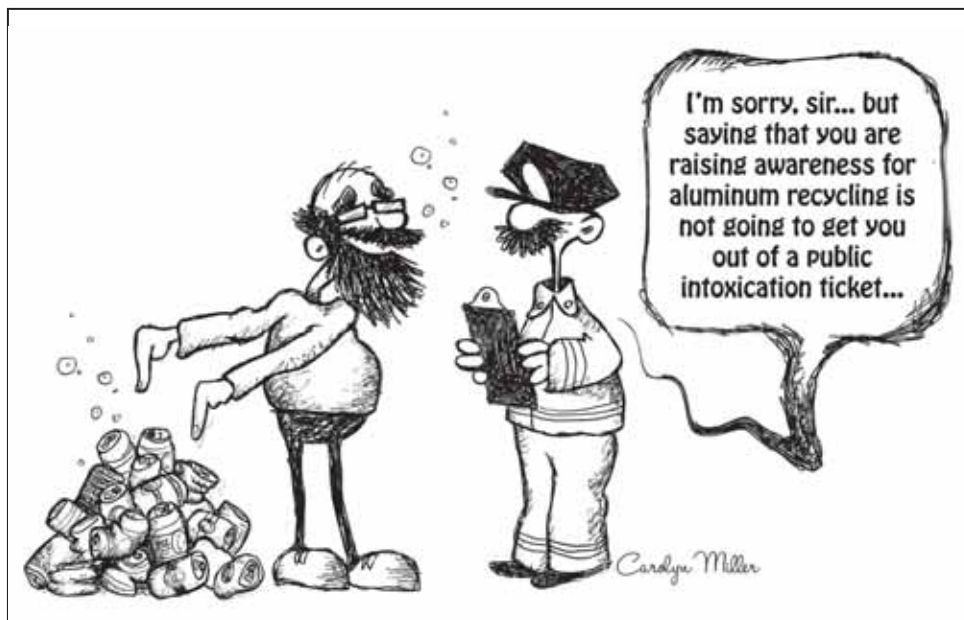
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American Waste chosen to receive recycler award



From left to right: County Commissioner Chairman Herb Lemcool, Kelly Ignace-American Waste, Resource Recovery Council Chairman Jim Carruthers – presenting the award, Mark Bevelhymmer-General Manager, American Waste.

Grand Traverse County Resource Recovery (RecycleSmart) stated that American Waste has been selected as the 2012 Take It Back Recycling Program Recycler of the Year. American Waste was unanimously selected for this award by the Resource Recovery Council.

The "Take It Back" recycling program is a convenient product return infrastructure, where consumers can return unwanted products for reuse, recycling or disposal. Over 100 products are included.

Each year the Resource Recovery Council selects a local business to receive the Take It Back Recycler of the Year award for their commitment in assisting Grand Traverse County residents reduce, reuse and recycle materials that would otherwise end up in the landfill. American Waste has been in the forefront in providing and promoting waste diversion programs in the county.

Programs include:

- Expansion of #3 through #7 plastic recycling, *i.e.* child car seats, boat shrink wrap, plastic bags and other plastics.

- Hosting Clean Up – Green Up recycling events.

- 96 gallon recycle carts.

- Single stream recycling.

- State of the art material recycling facility where 30 to 50 percent of the trash received is now recycled.

- Supporting RecycleSmart special events, *i.e.* Earth Day events, household hazardous waste collections, clean up of illegal dump sites, community education.

- Promoting reuse – by washing old bottles and selling them back to wineries.

American Waste achievements were recognized and a plaque was presented at the Grand Traverse County Board of Commissioners Resource & Administration meeting.

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Texas Disposal launches hotel room recycling

In most hotels, environmental responsibility extends as far as the sign in the bathroom asking guests to hang up their towel. The Four Seasons Hotel Austin's compost and recycling program is the first of its kind in the nation to take environmental stewardship a step further. Texas Disposal Systems (TDS) designed a system to offer in-room recycling and composting with the aim of diverting 90 percent of waste.

Composting is a relatively recent introduction to the hospitality industry. Generally hotels that compost only implement the program behind the scenes in the kitchen, where no guest will ever see it. The Four Seasons Hotel Austin decided to take this model a step further. They asked Texas Disposal Systems to devise a program that would offer guests the option of recycling and composting in their rooms. After extensive research, TDS chose to offer compost bags and trash receptacles with two containers: one for waste and one for recycling. Now guests are able to actively take part in the hotel's sustainability project.

Texas Disposal Systems is the only company in the area that handles trash, recycling, and organic waste streams at a single facility, eliminating the need for multiple vendors. They process the organic waste at their Creedmoor headquarters, generating high grade compost that is then sold under their Garden-Ville brand.

Ultimately this compost will be sold back to Garden-Ville customers, including the Four Seasons to nurture the landscape surrounding the hotel with the lawn that leads down to the Ladybird Lake hike and bike trail.

Seeing her friend Amy was wearing a new locket, Mary asked if there was a memento of some sort inside.

"Yes," said Amy, "a lock of my husband's hair."

"But Larry's still alive."

"Yes, but his hair is gone!"

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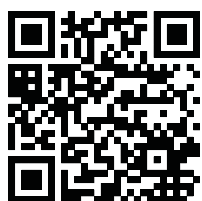
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ALTERNATIVE ENERGY

Fogfuels transforms cooking grease into biodiesel fuel

Fogfuels entered into a new partnership with the city of Atlanta. Fogfuels will use its patented process to transform fats, oils and grease into usable B100 biodiesel fuel that can be used to power school buses, city vehicles and machinery.

In this partnership, Fogfuels will work with independent haulers in the Metro Atlanta area to receive trap grease generated by restaurants and institutional sources. The waste will be received at the Fogfuels processing center where it will be converted to B100 biodiesel fuel. By creating this inner city processing center, Fogfuels will provide a convenient location for independent haulers to dump their trap grease. This facility will encourage haulers to remain compliant with City ordinances while resulting in significant reductions in

their operating costs due to reduced tipping fees and transportation costs.

Fogfuels understands that working with independent haulers will be the key to its success. In order to unite independent haulers nationwide, and to reduce illegal dumping by rogue operators, Fogfuels has created the Green Waste Haulers' Association (GWHA). This organization will represent the business interests of companies involved in the collection, transport and disposal of trap grease.

Atlanta is the first city that Fogfuels will partner with to create B100 fuel from trap grease. The company plans to work with other municipalities around the country to help clean up the problem of illegal grease dumping and create a better living environment.

SC Johnson utilizes wind energy

SC Johnson will participate in the Comision Federal de Electricidad's (CFE/Federal Electricity Commission) wind farm program; a power purchase agreement which will enable SC Johnson to increase its use of renewable energy at its Toluca, Mexico facility to an estimated 86 percent, up by 65 percent, and to decrease its greenhouse gas emissions for the same facility by 57 percent.

The turbines are in Oaxaca and were constructed by ENEL in partnership with the Comision Federal de Electricidad, who provides the infrastructure for energy transport. SC Johnson will begin using the purchased wind power mid-2013. Participation in the program, and the purchase agreement demonstrate the company's commitment to increasing its use of renewable energy to 44 percent of total electricity use worldwide by 2016.

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ALTERNATIVE ENERGY

Geothermal and global hydropower growth slows

Although the global consumption and installed capacity of hydropower and geothermal technologies have increased steadily since 2003, both types of energy saw slower growth in 2011, according to new research conducted by the Worldwatch Institute.

Global installed capacity of hydropower reached 970 gigawatts (GW), only a 1.6 percent increase from the previous year, while geothermal cumulative capacity reached 11.2 GW, slowing to below 1 percent for the first time since 2002, according to Evan Musolino.

"Despite the recent slowdown in growth, the overall market for hydropower and geothermal power is increasing in part because these two sources are not subject to the variability in generation that plagues other renewable energy sources such as wind and solar," said Musolino, a research associate with the Worldwatch's Climate and Energy Program. "The greater reliability of hydro and geothermal can thus be harnessed to provide reliable baseload power."

Hydroelectricity accounted for almost six percent of primary energy consumption among members of the Organisation for Economic Co-operation and Development (OECD). It played a more important role in other countries – at a little over 7 percent of usage – and these non-OECD nations accounted for 60 percent of worldwide hydroelectricity

consumption. On a regional basis, South America and Central America are most dependent on hydroelectricity relative to total energy use.

Although hydropower plays the least important role in the Middle East, the region experienced the greatest growth in hydroelectricity consumption in 2011, at almost 22 percent. North America was next, with an increase slightly under 14 percent. In contrast, usage fell by almost 9 percent in Europe and Eurasia and by 0.6 percent in the Asia Pacific region.

Although some 150 countries produce hydropower, half of the global capacity was concentrated in just 5 nations at the end of 2011. China remains the leader, with 212 GW installed, followed by Brazil (82.2 GW), the United States (79 GW), Canada (76.4 GW), and Russia (46 GW).

Despite the potential for inexpensive, low-emission electricity from hydropower, large projects can bring significant negative consequences. The damming of rivers to create the reservoirs needed for large-scale power generation is severely disruptive to ecosystems and can harm both animal and human populations. And building hydropower plants has its own significant emissions impacts, including from the creation of reservoirs and the large amounts of concrete needed for construction. In many cases, hydropower

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ALTERNATIVE ENERGY

Rodney Hailey sentenced for selling \$9 million in fraudulent renewable fuel credits

U.S. District Judge William D. Quarles, Jr. sentenced Rodney R. Hailey, of Perry Hall, Maryland, to nearly 12 years and 6 months in prison, followed by 3 years of supervised release, for selling \$9 million in renewable fuel credits which he falsely claimed were produced by his company, Clean Green Fuel, LLC.

"When invalid renewable fuel credits are produced and sold, it undermines the integrity of an important program designed by Congress to reduce the nation's dependence on foreign oil and to grow the nation's renewable energy industry," said Cynthia Giles, assistant administrator for EPA's Office of Enforcement and Compliance Assurance.

Judge Quarles enhanced Hailey's sentence upon finding that he obstructed justice by concealing, selling and spending assets that were protected by court order. Judge Quarles also ordered Hailey to pay restitution of approximately \$42.2 million to over 20 companies and forfeit \$9.1 million in proceeds from the fraud, including cars, jewelry, his home and bank accounts, already seized by the government.

Hailey was convicted on June 25, 2012, of 8 counts of wire fraud, 32 counts of money laundering and 2 counts of violating the Clean Air Act. He has been detained since the guilty verdict.

According to evidence presented at the six day trial, Hailey owned Clean Green Fuel, LLC, located in the Balti-

more, Maryland area. Hailey registered Clean Green Fuel with EPA under the Renewable Fuel Standard (RFS) program as a producer of bio-diesel fuel, a motor vehicle fuel derived from renewable resources. To encourage the production of renewable fuel and lessen the nation's dependence on foreign oil, all oil companies that market petroleum in the U.S. are required to produce a given quantity of renewable fuel or to purchase credits, called renewable identification numbers (RINs) from producers of renewable fuels to satisfy their renewable fuel requirements.

Between March 2009 and December 2010, Hailey engaged in a massive fraud scheme, selling over 35 million RINs (representing 23 million gallons of bio-diesel fuel) to brokers and oil companies, when in fact Clean Green Fuel had produced no fuel at all and Hailey did not have a facility capable of producing bio-diesel fuel.

Federal law enforcement agents investigated the scheme after a Baltimore County police detective working with Maryland's federal financial crimes task force received a report about the large number of luxury cars parked in front of Hailey's house. The financial crimes task force contacted EPA's Criminal Investigation Division and initiated a criminal investigation.

Two civil inspectors from EPA's Air Enforcement Division visited

Clean Green's headquarters on July 22, 2010, to inspect Hailey's bio-diesel production facility, in response to a complaint alleging that Clean Green had been selling false RINs. Hailey was not able to provide an exact location for the bio-diesel fuel production facility, nor any records to support claims that Clean Green Fuel had produced bio-diesel fuel. When asked to explain his method of production, Hailey falsely stated that he paid employees and contractors to recover waste vegetable oil from 2,700 restaurants in the "Delmarva" area, a peninsula that includes parts of Delaware, Virginia and Maryland, and bring it to his production facility where he converted it to bio-diesel fuel. Hailey claimed that only the drivers who picked up the oil knew the names of the restaurants, and Hailey could not provide the names of the drivers.

Hailey made more than \$9.1 million from selling the false RINs. Hailey used the proceeds of the scheme to purchase luxury vehicles, including BMWs, Mercedes Benz, a Rolls Royce Phantom, a Lamborghini, Ferrari, Maserati and others, as well as real estate and more than \$80,000 in diamond jewelry. In all of these transactions, Hailey generally used cash or checks drawn on accounts he controlled to make the purchase, including a check for \$645,330.15 to buy his home in Perry Hall, Maryland.

The loss to the traders and major energy companies who purchased Hailey's false RINs is more than \$40 million, but the loss also extends to small bio-diesel companies, many of which, as a result of Hailey's scheme, were unable to sell their RINs and have been forced out of business.

EPA recently proposed a voluntary quality assurance program to verify that RINs generated under the RFS program have been validly generated. EPA expects that this will promote greater liquidity in the transfer and use of RINs, helping to make the RFS program more efficient and effective.

Power growth

■Continued from Page 9

projects have led to the displacement of local populations and the adverse altering of downstream conditions.

But hydropower continues to be one of the most cost-effective renewable energy generation sources. Typical costs are in the range of \$.02 to \$.13 per kilowatt-hour for existing grid-connected hydropower plants and \$.05 to \$.10 per kilowatt-hour for new plants. Micro-hydropower installations (0.1 kilowatt to 1 megawatt), which are typically used in rural communities not connected to the national grid, generate at \$.05 to \$.40 cents per kilowatt-hour.

Like hydropower, geothermal resources are highly location-specific. Many countries with strong hydropower potential, including much of Latin America, the Caribbean, and Southeast Asia, have equally impressive geothermal potential. These resources have been exploited for power generation for over a century, with significant capacity being developed since the mid-1900s.

The costs associated with geothermal power also closely mirror those of hydropower. Varying by geothermal technology, generation costs are in the range of \$.05 to \$.10 cents per kilowatt-hour. High capital costs, associated primarily with the cost of drilling geothermal wells and the long lead time for project development, continue to challenge project developers.

Further highlights from the report:

•Global consumption of hydropower continued to increase in 2011, reaching 3,498 terawatt-hours.

•A total of 25 GW of new hydropower capacity was added in 2011, less than in previous years, with China, Vietnam, Brazil, India, and Canada responsible for 75 percent of the added capacity.

•Some 136 MW of new geothermal power capacity was installed in 2011, the vast majority of which came from two major projects: a 90 MW facility in Iceland and a 42 MW plant in Costa Rica.

•The United States continues to be a leader in geothermal capacity, with 3.1 GW, and is followed by the Philippines (1.9 GW), Indonesia (1.2 GW), Mexico (1 GW), and Italy (0.8 GW).

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Sustainability

■Continued from Page 4

program for organic recycling. Once we get our new transfer station built we also hope to be able to ship recyclables directly to the processor and cut out the middle man. I think we would be doing very well if we could get a rate anywhere between \$35 and \$40 per ton.

"The biggest thing for us is to have a diversion rate from landfills in the 30 to 40 percent range. When we started the program we were about 14 percent. Right now we are hovering around 21 percent. Today, our largest cost, other than personnel, is paying to have our transfer station ship to a landfill for disposal. If we can reduce that cost, we can use those dollars more efficiently and eventually reduce tax dollars," said Long.

If there is ever to be sustainability in waste management, it will have to be as a subset of an overall economic model that considers sustainability in all aspects, particularly in the production of the products it creates and consumes. Creating newer, lightweight packaging, for example, that is less expensive and more protective has advantages, but those benefits must be weighed against the materials' ability to be recycled or safely biodegrade. It will take a global materials management program to identify, eliminate or redefine materials before they enter the waste stream. If we can prevent or minimize undesirable materials entering the waste stream, identify alternative materials to make them more easily recyclable or marketable we may find the pathway towards attaining meaningful sustainability.

WASTE

Communities report prolonged success in reducing cigarette butt waste

Keep America Beautiful (KAB) reports an average 55 percent reduction of cigarette litter in the communities implementing KAB's Cigarette Litter Prevention Program (CLPP) during 2012. In 2012, the program's 10th year, there were 195 grant-supported implementations across the country in a variety of places including downtowns, roadways, beaches, parks, marinas, colleges/universities, tourist spots and at special events.

Over the past seven years, the CLPP has consistently cut cigarette butt litter by half based on local measurements taken in the first four months to six months after a program implementation. Survey results also showed that as communities continue to monitor the program those reductions are sustained or even increased over time.

"Cigarette litter may still be a significant issue throughout the country, but our Cigarette Litter Prevention Program is making a difference in communities where the program is being implemented," said Matthew M. McKenna, president and CEO of KAB. "Through consistent and persistent public education in combination with access to receptacles, we can lessen the environmental harm cigarette litter places on our landscapes and waterways."

Tobacco products, consisting mainly of cigarette butts, are the most littered item in America, representing nearly 38 percent of all items, according

to "Litter in America," KAB's 2009 study of litter and littering behavior. In response to this issue, KAB developed the CLPP with funding from Philip Morris USA, an Altria company. Since 2010, the program has received additional support from RAI Services Company. Since its inception, the program has been implemented in 1,263 U.S. communities.

"We studied 12 sites over an 11-week period and realized a 68 percent reduction in cigarette litter at sites where we had public education, signage and ash receptacles as compared with control sites where we didn't have those CLPP program components," said Adam Roberts, executive director of KAB affiliate Hot Springs/Garland County Beautification Commission in Hot Springs, Arkansas.

"Ground crews and staff at every site where interventions took place commented about the reductions in cigarette litter and – as important – litter in general," added Roberts, who noted a 33 percent decrease in the amount of general litter at those sites.

In addition to Keep America Beautiful affiliates, KAB offered grants through its partnership with the International Downtown Association and International City/County Management Association in 2012. In Southwest Detroit, the West Vernor and Springwells Business Improvement District (BID) realized an 81 percent reduction

in cigarette litter between July and October. With 10 receptacles installed, the organization estimated it saved four hours of maintenance per week. "The impact in reducing litter through the CLPP has been astonishing," said Matthew Bihun, BID program manager.

Research has shown that even self-reported "non-litterers" often don't consider tossing cigarette butts on the ground to be "littering." KAB has found that cigarette butt litter occurs most often at transition points – areas where a person must stop smoking before proceeding into another area. These include bus stops, entrances to stores and public buildings, and the sidewalk areas outside of bars and restaurants, among others.

To address cigarette butt litter, KAB's Cigarette Litter Prevention Program recommends communities integrate four proven approaches:

- Encourage enforcement of litter laws, including cigarette litter;
- Raise awareness about the issue using public service messages;
- Place ash receptacles at transition points such as entrances to public buildings; and,
- Distribute pocket or portable ashtrays to adult smokers.

The "Guide to Cigarette Litter Prevention" provides information about starting and maintaining a Cigarette Litter Prevention Program in your community, and can be found online at PreventCigaretteLitter.org.

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WASTE

Republic Services secures partnership with city of Flint

Republic Services, Inc. has entered a five year public-private partnership with the city of Flint, Michigan to provide solutions to meet their waste and recycling needs.

The primary benefits of a public-private partnership for a municipality include lower costs; consistent safety training and service standards; greater efficiency; and risk mitigation. Republic can better leverage costs through competition and economies of scale because it specializes in waste and recycling services; deliver service quality and safety that is equal to or exceeds that of the public sector; perform with greater flexibility; and reduce the risks associated with providing waste services.

Under the agreement, Republic also will phase in a new curbside recycling pro-

gram that will support the city's commitment to increase recycling participation and reduce its environmental impact. As part of the agreement, Republic will service the city's municipal waste needs, provide services for city-sanctioned events, launch a recycling education campaign and purchase Flint's collection trucks for \$1.5 million.

Additionally, the city's sanitation workforce has the opportunity to join Republic Services. Republic will consider these highly-skilled workers first to fill company positions created by the contract.

Republic operates the Citizen's Disposal landfill and has provided residential, commercial and industrial service to the Flint area for more than two decades.

NSWMA supports legislation to reduce solid waste costs in Missouri

The Missouri Chapter of the National Solid Wastes Management Association (NSWMA) voiced its support for Missouri Senate Bill 13, which proposes to restructure solid waste management districts and allows for the current grant funding to be allocated more efficiently for cities and counties for waste reduction and recycling. The grants are funded by a tip fee that is collected at transfer stations or landfills.

Peggy Macenas, regional manager of the Missouri chapter of the NSWMA, said, "We applaud Senator Schaefer's pro-

posed legislation. This bill reforms, modernizes and reduces government bureaucracy."

Kevin O'Brien, chairman of the Missouri Chapter of the NSWMA, said, "The members of NSWMA have implemented recycling in most of its Missouri markets with limited or no grant funds to date. In fact, if the subsidies go away members and other entities can begin to compete for recycling in all areas of the State that our members serve."

PAPER

Association elects officers; reports paper statistics

The American Forest & Paper Association (AF&PA) elected Graphic Packaging president and chief executive officer David Scheible as the new AF&PA board chairman, along with the 2013 slate of board officers.

Scheible has served as Graphic Packaging's president and chief executive officer since 2007. Since being elected to AF&PA's board of directors, he has served in various leadership roles, including as chairman of chief executive officer Task Force on Biomass and the Recycled Paperboard sector.

Scheible holds a Bachelor of Science in Biochemistry and a Master of Science in Industrial Administration in Finance, both from Purdue University.

Also elected to officer positions by the AF&PA board are: first vice chairman – John Williams, president and chief executive officer of Domtar and second vice chairman – Mark Gardner, president and chief executive officer of Sappi Fine Paper North America. Alexander Toeldte, president and chief executive officer of Boise Inc., will serve as the immediate past chairman.

Beginning terms as members of the AF&PA board of directors in 2013 are: John Crowe, Buckeye Technologies Inc.; Ray Dillon, Deltic Timber Corporation; Mike Fiterman, Liberty Diversified International; James Morgan, Interstate Resources, Inc.; and Mark Staton, PaperWorks Industries Inc.

In one of the board's first actions of 2013, the group launched its advocacy on AF&PA's key policy initiatives for the year. These include a focus on sustainability, air and greenhouse gas regulations, carbon neutrality of biomass, recycling, access to paper-based communications, U.S. Department of Agriculture programs, products fees, postal service reforms, and other policies affecting manufacturing.

AF&PA released its January 2013 U.S. paper reports:

Containerboard

Containerboard production rose 1.7 percent over December 2012 and 3.5 percent over the same month last year. The month-over-month average daily production increased 1.7 percent. The containerboard operating rate for January 2013 gained 1.3 points over December 2012, from 95.8 percent to 97.1 percent.

Boxboard

Total boxboard production increased by 0.9 percent compared to January 2012 and increased 1.7 percent from the previous month. Unbleached Kraft Boxboard production increased over the same month last year and increased compared to last month. Total Solid Bleached Boxboard & Liner production decreased compared to January 2012. The production of Recycled Boxboard increased compared to January 2012.

Printing-writing paper

According to the printing-writing paper report, total printing-writing paper shipments were down 3 percent from January 2012.

Additional key findings:

- January shipments of coated free sheet (CFS) papers increased in 5 percent compared to January 2012, the third year-over-year increase in the past four months.

- Uncoated free sheet (UFS) papers shipments of 766,300 tons in January were 3 percent below the same period last year.

- January uncoated mechanical (UM) paper shipments decreased 10 percent when compared to January 2012.

- January shipments of coated mechanical (CM) decreased 9 percent compared to January 2012 to 255,900 tons.

Kraft Paper

Total Kraft paper shipments were 140.5 thousand tons, an increase of 19 percent compared to the prior month. Bleached Kraft paper shipments increased year-over-year 17 percent, and unbleached Kraft paper shipments increased 7 percent year-over-year. As a result, total Kraft paper shipments begin the year 9 percent higher than 2012.

Total month-end inventory decreased 14 percent to 73.5 thousand tons this month compared to December 2012 month-end inventories.

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PAPER

AF&PA sets policy initiatives

The American Forest & Paper Association's (AF&PA) board of directors formally established the association's key policy initiatives for 2013 at its recent meeting in Washington.

"Our members are on the front lines of addressing the issues necessary to compete in a global marketplace and work with AF&PA to ensure that policy-makers and regulators understand their concerns," said AF&PA president and chief executive officer Donna Harman. "While we represent the paper and wood products industry on an array of issues, our leadership is focused on prioritizing our resources to maximize our policy achievements in 2013."

AF&PA's 2013 key policy initiatives include:

- Working with members and other sustainability thought leaders to achieve industry goals to increase paper recovery for recycling, increase energy efficiency, reduce greenhouse gases, promote sustainable forestry, improve workplace safety, and reduce water use.

- Working with the Environmental Protection Agency (EPA), lawmakers, and other stakeholders to support development of practical and sustainable air regulations.

- Working with EPA and others to allow renewable biomass residuals to be recognized as a carbon-neutral fuel source in greenhouse gas regulations.

- Promoting access to paper-based communication options for government programs such as Social Security, the Internal Revenue Service, savings bonds, and educational resources to ensure that the 30 percent of Americans without Internet access can still access these vital public programs.

- Advocating for inclusion of industry products in the U.S. Department of Agriculture's BioPreferred program. Paper and wood products are among the most biobased products available to consumers and should be part of government procurement and voluntary labeling initiatives.

- Urging Congress to return fiscal viability to the U.S. Postal Service (USPS) through comprehensive postal reform that supports long-term cost reductions, allows new revenue sources, and relieves USPS of unfair financial obligations while satisfying the nation's service needs.

- Supporting policies that promote voluntary and market-based paper recycling programs.

- Ensuring that tax changes improve the U.S. economy, U.S. job opportunities, and the competitiveness of U.S.-based businesses without resulting in tax increases that would harm economic growth and job creation.

It was the end of the school year and Joey's mother asked, "Were the exam questions difficult?"

"Those weren't bad at all!" her son replied. "It was the answers that gave me trouble."

CONSTRUCTION & DEMOLITION

Cascades receives LEED Gold certification for expansion of Lachute plant



The expansion of Cascades' Tissue Group plant in Lachute, Quebec, has received LEED Gold certification.

The plant is the first paper manufacturing facility to obtain LEED-NC (New Construction) certification in the Canadian paper industry.

The expansion project of the Lachute plant received the Gold level of LEED certification thanks to Cascades' efforts to reduce its ecological footprint. This concern demonstrates the company's will to remain at the forefront of environmental protection, which concerns not only its production activities but also the continuous improvement of its buildings.

This project was recognized for its exemplary performance regarding:

- The reduction of its drinking water consumption, evaluated at 46.57 percent.
- The use of regional materials, with 47.08 percent of costs used for the purchase of materials produced and extracted locally.

- The presence of certified wood, accounting for 96.36 percent of total cost for materials.

The project was also acknowledged because it offers a 58 percent reduction in energy costs and because 86.6 percent of the construction waste was diverted from landfill.

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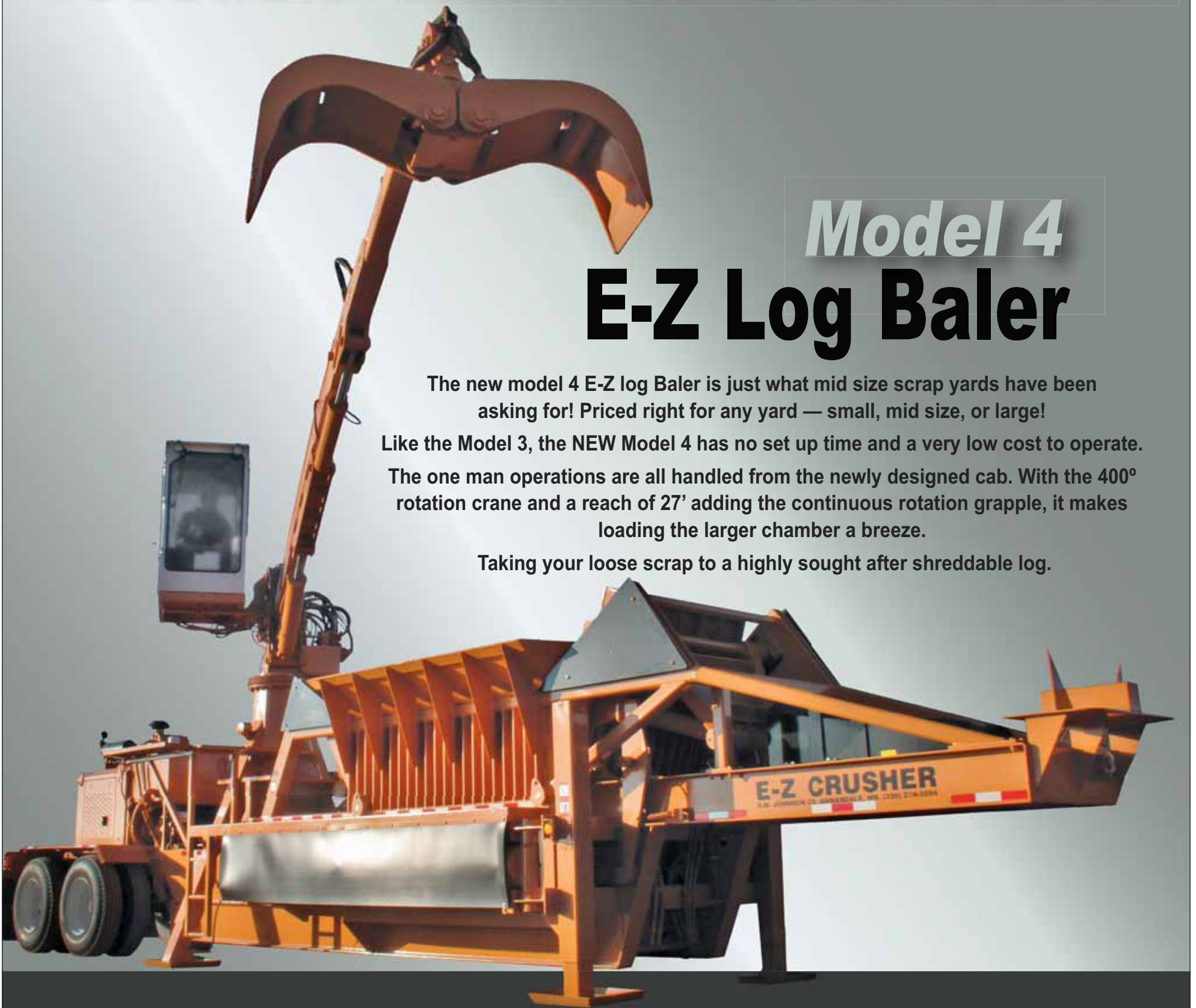
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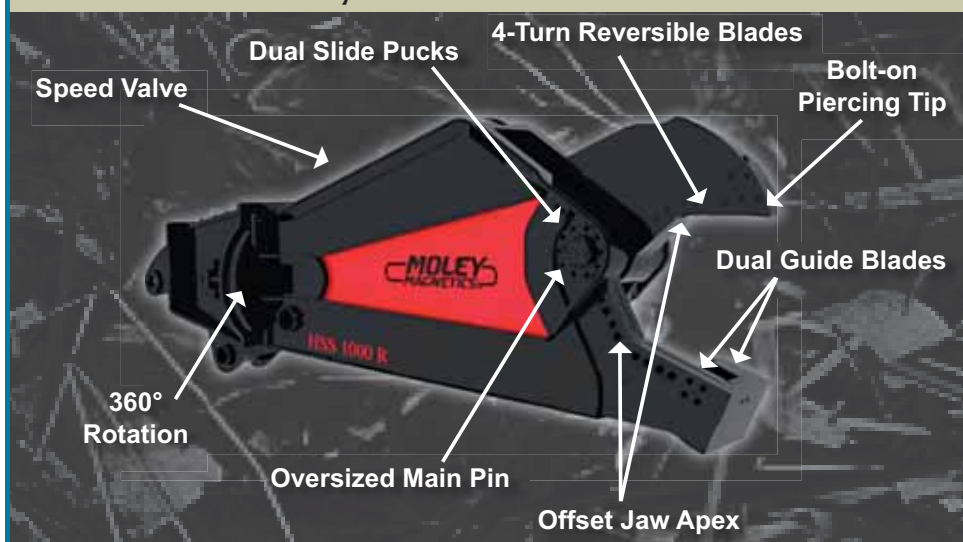
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METALS

Steel imports increase by 5 percent in January 2013

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

	JAN 2013	DEC 2012	2013 Annual (est)	2012 Annual	% Change 2013 Annual vs. 2012
SOUTH KOREA	349	159	4,187	3,651	14.7%
CHINA	164	169	1,973	1,652	19.5%
JAPAN	139	86	1,663	1,931	-13.8%
TURKEY	132	49	1,586	1,347	17.8%
GERMANY	74	126	882	1,279	-31.0%
INDIA	65	44	778	762	2.2%
THE NETHERLANDS	51	77	614	634	-3.2%
All Others	1,132	1,071	13,588	14,571	-6.7%
TOTAL	2,106	1,780	25,272	25,826	-2.1%

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,579,000 net tons (NT) of steel in January, including 2,106,000 NT of finished steel (up 5 percent and 18 percent, respectively, vs. December final data). Year-to-date (YTD) total and finished steel imports are 2,579,000 and 2,106,000 net tons (NT), respectively, down 8 percent and 4 percent, vs. the 2,815,000 and 2,204,000 net tons (NT), respectively, for the same period in 2012.

Key finished steel products with increases in January compared to

December include reinforcing bar (up 97 percent), heavy structural shapes (up 79 percent), oil country goods (up 55 percent), hot dipped galvanized sheets and strip (up 47 percent), wire rods (up 26 percent), line pipe (up 23 percent) and hot rolled bars (up 16 percent).

In January, the largest volumes of finished steel imports from offshore were from South Korea (349,000 NT, up 120 percent), China (164,000 NT, down 3 percent), Japan (139,000 NT, up 61 percent), Turkey (132,000 NT, up 170 percent) and Germany (74,000 NT, down 42 percent).

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METALS

February SIMA import permits down five percent

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of February total 2,558,000 net tons (NT). This was a 5 percent decrease from the 2,692,000 permit tons recorded in January and down 0.8 percent from the January preliminary imports total of 2,579,000 NT. Import permit tonnage for finished steel in February was 1,937,000, down 8 percent from the preliminary imports total of 2,106,000 in January.

Finished steel imports with large increases in February permits vs. the January preliminary included cut length plates (up 65 percent), plates in coils (up 29 percent), standard rails (up 29 percent) and sheets and strip all other metallic coatings

(up 19 percent). Major products with significant year-to-date (YTD) increases vs. the same period in 2012 include sheets and strip galvanized hot dipped (up 24 percent), line pipe (up 20 percent) and wire drawn (up 17 percent).

In February, the largest finished steel import permit applications for offshore countries were for South Korea (296,000 NT, down 15 percent from January), Turkey (144,000 NT up 9 percent), Japan (134,000 NT, down 3 percent), China (119,000 NT, down 28 percent) and Germany (100,000 NT, up 36 percent). Through the first two months of 2013, the largest offshore suppliers were South Korea (645,000 NT, down 1 percent from the same period in 2012), China (284,000 NT, up 50 percent) and Turkey (276,000 NT, down 21 percent).

December steel shipments up

The American Iron and Steel Institute (AISI) reported that for the month of December 2012, U.S. steel mills shipped 7,483,120 net tons, a 1.2 percent increase from the 7,397,149 net tons shipped in the previous month, November 2012, and a 7.5 percent decrease from the 8,085,761 net tons shipped in December 2011. Shipments for full year 2012 were 95,948,663 net tons, a 4.4 percent increase vs. 2011 shipments of 91,865,449 net tons.

Shipments in December were 6 percent below the 2012 monthly average of

8.0 million net tons. While December shipments were the highest monthly amount since the 8.4 million tons shipped in August, they were below all monthly totals in the first eight months of 2012.

A comparison of December shipments to the previous month of November shows the following changes: hot rolled sheet, up 7 percent, hot dipped galvanized sheets and strip, up 1 percent and cold rolled sheet, down 1 percent.

Scrap Metals MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$340.00	\$340.00	\$379.00	\$390.00	\$395.00
#1 Bundles	per gross ton	345.00	340.00	378.00	370.00	392.00
Plate and Structural	per gross ton	340.00	329.00	360.00	389.00	385.00
#1 & 2 Mixed Steel	per gross ton	330.00	325.00	364.00	375.00	365.00
Shredder Bundles (tin)	per gross ton	290.00	298.00	315.00	328.00	340.00
Crushed Auto Bodies	per gross ton	290.00	250.00	315.00	328.00	340.00
Steel Turnings	per gross ton	220.00	210.00	245.00	220.00	263.00
#1 Copper	per pound	3.25	3.08	3.39	3.40	3.29
#2 Copper	per pound	3.15	2.98	3.30	3.25	3.13
Aluminum Cans	per pound	.64	.65	.78	.72	.76
Auto Radiators	per pound	1.53	1.98	2.10	2.04	2.15
Aluminum Core Radiators	per pound	.58	.61	.72	.71	.73
Heater Cores	per pound	2.00	1.98	1.59	1.58	1.82
Stainless Steel	per pound	.65	.66	.78	.77	.78

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

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 - JOHN DEERE 624G with bucket (1,000 Series)
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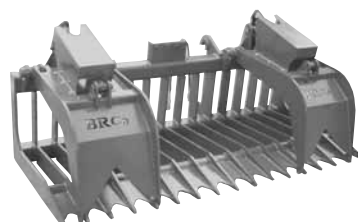
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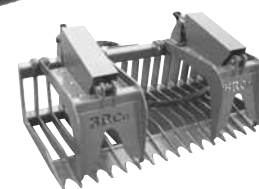
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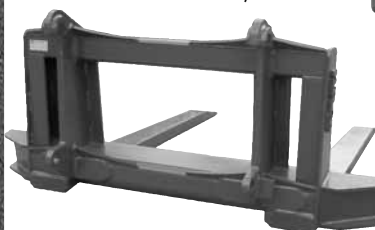
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Tips in dealing with your banker

Learn from the tips in these continuing articles.

If you've made it this far, you realize that there's a lot of information that entrepreneurs need to acquire before approaching their banker. The prior columns had tips and traps noted, but some require more explanation, so we've added them here in this column. Even with all the information you've been given, there are a few more things you should be aware of before you walk into the bank.

Learning these tips can save you time, money and headaches down the road. Remember, you don't know what you don't know, and it's important to surround yourself with people that know more!

Tip 1 – Appraisals aren't always needed.

Although appraisals are very common on real estate deals, you may not need one if the property's value is below a certain dollar amount. The threshold varies by bank.

Banks can use tax district appraisals, depending on the loan-to-value ratio, rather than conducting a new appraisal. In the current economic environment, the Fed is concerned that local tax districts can't keep pace with rapidly changing property values, because tax districts look at property on only an annual basis. But if the district says a piece of property is worth \$200,000, a customer could likely expect to borrow \$100,000 on that property – or 50 percent of the estimated value – without a formal appraisal.

Tip 2 – All appraisals are not created equal.

In commercial real estate, there are two kinds of appraisals – full scope and limited scope. In a full-scope appraisal, the property is inspected thoroughly, while a limited scope requires less information. Typically, a limited-scope appraisal is all you'll need.

Three factors are considered when a property is appraised:

- Cost: What's the cost to rebuild this building?
- Income: How much revenue can you generate by renting this space?
- Comparable sales: What would be the price if you wanted to sell this property?

Keep in mind that customers can't choose their appraisers. Regulations require bankers hire the

appraiser. In the interest of fairness, you can ask your bank to put the appraisal out to bid. The rules have changed dramatically in recent years, so you can't put it out to bid yourself. The new federal guidelines require the lender to get the appraisal and because of the more cautious approach, the odds are very good that the appraised value will be much less than you expected.

There are times that a lender can ask for an updated appraisal with a limited scope or a "drive by" update or "desktop," and any of these can save the customer money.

Tip 3 – To the points.

Points – the additional, up-front fees paid instead of higher interest rates – used to be fairly negotiable in real estate loans. With money less readily available in today's economic climate, that has changed. Today, one point is standard as an origination fee on a real estate loan.

A point is pure income for the bank. There are no costs associated with it, and if the bank wants, it can reduce the fee to half a point or zero. In most cases, it doesn't. But you won't know unless you ask, because chances are the bank isn't going to offer.

The negotiation of points depends largely upon your repayment ability. If you're going into the deal without any money, you're going to have to pay a one percent fee or even more. But if you have a great deal of money, the odds of getting the fee down to half a point or zero are much better.

Lenders can also charge fees on commercial lines of credit. They can charge a point on that line of credit or they might even charge an "unused fee." An unused fee is similar to having a line of credit; it means you want to have money available to you as a loan, but since you aren't using the money, the banker can charge a fee on it. Many lenders don't charge a fee, but expect to pay a commitment fee or unused fee that could be one to three percent of the loan or the unused amount. The reasoning is that they have to "save" deposits and capital to offset your line of credit in case you decide to use the money, so they want to earn something for keeping that money available, and because they have processing costs related to putting your credit in place, even if you don't use it.

Remember, only you can make BUSINESS GREAT!

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

Certification program adopted by Automotive Recyclers of Canada

The Automotive Recyclers Association (ARA) stated that the Automotive Recyclers of Canada (ARC) has become the first international association to adopt the Gold Seal Program. As part of their decision, ARC also elected to have all of its automotive recycling members adhere to the Gold Seal standards. All ARC Members are already audited to the Canadian Auto Recyclers Environmental Code (CAREC), and now Gold Seal certification takes those qualified Members to the next level.

ARC's decision to supply high quality recycled parts with no surprises on delivery ensures successful applicants will be best in class within the automotive recycling industry by implementing industry

standards for customer service and recycled part quality based on the highest professional service goals and ethical business practices in the automotive recycling industry.

The Gold Seal Program sets up a quality assurance accreditation program for ARC Members that utilizes a series of standards, audits and CSI requirements to help ensure high quality recycled parts are reliably provided to repairers, insurers and the motoring public.

Modeled after the ARA's Gold Seal Program, ARC's business certification program will further channel the strength of the ARC recycler network and assist in addressing the unique characteristics present in the Canadian market.

GM to boost recycling efforts

General Motors (GM) is taking a regional approach to boosting recycling infrastructure – looking first to the Southeast United States.

GM initiated the Suppliers' Partnership for the Environment Southern Network forum and hosted a group at its Spring Hill, Tennessee complex. GM is seeking to increase its landfill-free facilities from 104 to 125 by 2020.

Suppliers Partnership, a group GM helped form, collaborates with and mentors members within the automotive sup-

ply base on environmental and social issues. GM envisions the new Southern Network forum as the first step in a growing regional recycling and job development network with the potential to increase waste-treatment options and alternatives to landfilling.

Many GM projects, from helping insulate sleeping bags for the homeless and turning oil-soaked booms into parts for the Chevrolet Volt, resulted from collaborating within the Suppliers Partnership network.

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PLASTICS

U.S. Government warns on “compostable” plastic

The U.S. Federal Trade Commission (FTC) has issued a revised version of its “Green Guide” which warns against making deceptive environmental claims. The FTC has power to prosecute in such cases. The FTC says at 260.7(a) that “It is deceptive to misrepresent, directly or by implication, that a product or package is compostable.”

The FTC has two main concerns. The first was the limited availability of industrial composting facilities, and they warned against claims for compostability if such facilities were not available to a substantial majority of consumers where the item was sold.

The second concern is related to the performance of “compostable” plastics in home and industrial composting. The FTC added that it was not sufficient to show that a test item had complied with ASTM D6400 or D6868, because those standards “likely do not typify compost facility operations nationwide. Rather they reflect “optimum operating condi-

tions and ignore wide variation in actual facility operations.”

Compostable plastics are often marketed as made from renewable materials, but the FTC said (260.16), “It is deceptive to misrepresent, directly or by implication, that a product or package is made with renewable materials.”

Consumers may be misled by claims of renewability unless they are advised that substantial amounts of non-renewable resources (fossil fuels) are used in the agricultural production process and the polymerization process of bio-based plastics.

With regard to landfilling, Paragraph 260.7 (c) (2) says that “marketers should qualify claims if the claim misleads consumers about environmental benefit when the item is disposed of in a landfill.” Consumers may be deceived if the marketer does not draw attention to the fact that bio-based plastics can generate methane deep in landfill and that methane is a dangerous greenhouse gas.

Recycling of plastic bags, wraps and film rises to 1 billion pounds

The recycling of plastic film climbed 4 percent to reach 1 billion pounds annually in 2011 for the first time, according to a national report. The category of “plastic film” includes plastic bags, product wraps and commercial shrink film. The report, developed by Moore Recycling Associates, Inc. on behalf of the American Chemistry Council (ACC), noted that the recycling of plastic film has grown 55 percent since 2005.

According to the report, approximately 58 percent of U.S.-recovered postconsumer film was consumed domestically in 2011 – up from 53 percent in 2010 – largely due to growth in the plastic and composite lumber industry, the primary market for this material.

The composite lumber industry showed a 120 million pound increase in consumption from 2010 to 2011 to reach 55 percent of the total market for recovered film. Consumption of postconsumer

plastic film by the film and sheet industry, the second largest market for this material, held steady at 100 million pounds, or 16 percent of the total market.

Recycled polyethylene film is used to make a range of products, including durable plastic and composite lumber for outdoor decks and fencing, home building products, garden products, crates, pipe, and new film packaging like plastic bags.

Recovery data in the report, “2011 National Postconsumer Plastic Bag & Film Recycling Report,” is based on a survey of 19 U.S. and 3 Canadian processors of postconsumer film along with 37 companies that export this material.

“Reaching the 1 billion pound mark is an achievement that plastics makers, recyclers and retailers can be proud of,” said Steve Russell, vice president of plastics for ACC, “and we’re continuing to work together to get that number even higher.”

Reports show increased water bottle recycling

The International Bottled Water Association (IBWA) indicated that new data from the National Association for PET Container Resources (NAPCOR) and the Beverage Marketing Corporation (BMC) show the bottled water industry continuing to reduce its environmental footprint through significant increases in recycling and the use of less plastic in single-serve PET bottled water containers.

According to NAPCOR, now at almost 39 percent, the recycling rate for single-serve PET plastic bottled water containers has more than doubled in the last 7 years. And, BMC found that over the last 11 years the average weight of a 16.9 ounce single-serve PET plastic bottled water container has dropped by almost 47.8 percent, to 9.9 grams.

Of all plastics produced in the U.S., PET bottled water packaging makes up less than one percent.

According to a January 2013 internal NAPCOR study, the national recycling rate for PET plastic bottled water containers jumped dramatically in 2011 to 38.6 percent, representing an increase of nearly 20 percent over the previous year’s rate of 32.25 percent. In its study, NAPCOR states that in 2011 (the most recent available data) there were approximately 1.3

billion pounds of PET plastic water bottle containers available for recycling in the United States, of which 500 million pounds was reclaimed for recycling. And, PET plastic bottled water containers are the most frequently recycled PET beverage container in curbside recycling programs.

Additionally, data released by BMC on January 31, 2013 shows that between 2000 and 2011, the average weight of a 16.9 ounce PET plastic bottled water container has declined 47.8 percent. This has resulted in a savings of 3.3 billion pounds of PET resin since 2000.

The significant increase in the recycling rate of PET plastic bottled water containers, coupled with the continuing decrease in container weight, underscores the consistent drive of the bottled water industry to improve recycling programs and reduce its overall environmental footprint.

“The bottled water industry utilizes a variety of measures to reduce our environmental footprint,” said Chris Hogan, IBWA’s vice president of communications. “All bottled water containers are 100 percent recyclable. And, when you do the math, it turns out that of all the plastics produced in the U.S., PET plastic bottled water packaging makes up only 0.92 percent; less than one percent. Moreover, plastic bottled water containers make up only one-third of 1 percent of the U.S. waste stream, according to the EPA.”

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INTERNATIONAL

UK carpet recycling rises

Almost 85,000 metric tons of carpet waste was diverted from landfills in the UK by manufacturing members of Carpet Recycling UK (CRUK) during 2012. Of the 85,000 tons, 36,000 tons were recycled or reused while 49,000 tons were used for energy recovery via cement kilns and generation plants.

This represents a diversion rate of 21.4 percent and a 30 percent increase over 2011. In 2011, 16.5 percent of carpet waste was diverted from landfill and the CRUK is aiming to hit a target of 23.5 percent this year, rising to 25 percent by 2015. Energy recovery grew by 44 percent or 15,000 tons, and the amount of waste carpet recycled grew by 12.5 percent or 4,000 tons.

MBA Polymers completes ISO certification

MBA Polymers, a multinational plastics recycling company, has met the international standards of ISO 14001 (2004), the international Environmental Management Standard, for its plant in Guangzhou, China.

MBA China developed a system of compliance and initiated a number of new operational procedures as well as making a commitment to further reduce energy consumption. It aims for continuous improvement and regular reviews.

Polish biomass market on the move

Poland plans to introduce a new law on renewable energies.

Co-incinerating biomass in coal power plants is dominating today. In the future, however, the support of smaller mono-incinerators and the use of CHP technology should be strengthened. This will lead to new opportunities to develop projects at industrial locations that produce large amounts of biomass. This is the result of an analysis of ecoprog GmbH and local partners.

Approximately 50 percent of the Polish electricity from renewable energies is produced from biomass and almost a third comes from co-incinerating biomass in coal-fired power plants.

This large share results from Poland's strong biomass potential and its large number of coal power plants. They generate about 90 percent of Poland's electricity. By using this existing infrastructure, Poland was able to significantly increase its share of renewable energies in just a few years.

Today, 30 of the 39 Polish coal power plants are co-incinerating biomass. The ecological criticism of this practice, however, increases. Most co-incinerating coal

power plants do not use the emerging waste heat: about 75 per cent of the electricity from biomass is produced without using it. As a result of the booming co-incineration in Poland, prices for energetically used biomass have almost doubled since 2006. This demand has led to an increasing import of biomass, for instance wood pellets from Russia or rapeseed meal from Ukraine.

The Polish state wants to strike a new path with the new law on renewable energies. For the first time, different types of electricity generation will receive different compensations. The compensation for smaller mono-incinerators should, in some cases, be more than four times as high as the compensation for large coal power plants that do not use their waste heat. At the same time, the growth of renewable energies should once again accelerate.

The new Polish law on renewable energies will produce opportunities to develop new biomass power plant projects, for instance at company locations in the wood or furniture industry. As the current support of co-incineration is strong, such locations have not played a role so far. Only 11 biomass power plants are

operational at 450 locations that produce large amounts of biomass also analyzed in a study. The largest plants are operational at three large Polish pulp mills and they are also co-incinerators. The eight existing mono-incinerators at industrial locations are considerably smaller and they produce less than five percent of the Polish biomass electricity.

At present, the Polish parliament is discussing the new legislation. The large state-owned energy providers especially oppose decreasing subsidies for co-incineration. This blockade, however, will have to end soon as it is urgent to change the situation. The delay of the new law has resulted in temporarily slumping prices for renewable energies certificates. New power plants that were constructed with the new law in mind become operational. Nevertheless, old co-incinerators continue to produce, even though many of them should leave the market due to the announced legislative changes. This results in overcapacities and declining prices that affect the power plant operators themselves. The law on renewable energies is expected to take effect in the second half of 2013.

Plastics recycler calls for VAT exemption on recycled plastics

MBA Polymers, a multinational plastics recycling company, called on the UK government to suspend value added tax (VAT) on recycled plastics to help stimulate consumer demand and encourage

investment in the UK's plastics recycling industry.

The call was made at a presentation at Portcullis House, Westminster at an event entitled "The future of recycling – The challenge for plastics." Around 100 politicians, environmental groups and major plastics-users attended the presentation.

MBA Polymers chief executive, Nigel Hunton, commented, "Plastics recycling is a big opportunity for the UK plc. We currently lie behind leading European countries in terms of the recycling rates of post-consumer plastic waste and in 2011 the UK performance was just over 20 percent. Sweden, Norway, Germany and France were all above us."

"The UK can become a world leader in this sector," continued Hunton, "but we can only do that by changing some of our approach. Recycled plastics are a resource – not a waste product. There is the potential for major environmental and economic benefit such as attracting new jobs and investment to the UK, reducing our dependence on foreign oil and providing a competitive advantage for the UK through green marketing and innovative technology.

MBA's view is that [we] only need to do a few things differently in the future.

First, a level playing field is needed. Auditing of downstream overseas plastic waste processors, similar to domestic processors is needed. We allow the export of plastics waste but it needs better and more vigorous enforcement and checking.

Second, the UK needs something to incentivize the market with legislation designed to encourage post-consumer recycled plastics content in new products, such as exemption or a reduced rate of VAT.

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BUSINESS BRIEFS

Liebherr promotes Ana Cabiedes-Uranga

■ Liebherr Construction Equipment Co. has promoted Ana Cabiedes-Uranga to the position of marketing and communications manager. In her new role she will be responsible for planning, implementing and communicating the company's marketing efforts.

In her previous position as trade show and event manager, Cabiedes-Uranga was responsible for the strategic planning and management of all Liebherr Construction Equipment Co. events. She worked closely with senior management to develop an integrated communications strategy across multiple media channels and platforms in order to promote such events as well as the Liebherr brand.

Cabiedes-Uranga led the launch of the new trade show identity, brand positioning and integration of new technologies for customer engagement. As new methods of communication have become available, she has been instrumental in the use of social media to strengthen the brand identity and connect with our customers.

Cabiedes-Uranga joined Liebherr in 2005 and has held multiple positions in the marketing department.

An elderly woman recently died. She had never married. In her written instructions for her service she said that she was not to have any male pallbearers. She wrote, "They wouldn't take me out when I was alive. I don't want them to take me out when I'm dead."

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Maloy joins Vecoplan as new project engineer

■ Mike Maloy has joined the staff of Vecoplan, LLC as a project engineer.

Maloy earned a Bachelor's of Science degree in Aerospace Engineering, with a mechanical concentration, and ocean engineering from Virginia Polytechnic Institute & State University in 2007. He brings five years of practical experience to his new position at Vecoplan.

GDT TEK enters agreement to purchase landfill

■ GDT TEK, Inc. has entered into an agreement in principal to purchase 100 percent of a certain business that supplies electricity to the grid from electrical generators that burn methane gas.

The agreement requires a payment of \$8,950,000 to be paid to the current owners of the business.

KPI-JCI recognized as a Patriotic Employer

■ Kolberg-Pioneer, Inc. (KPI-JCI) has been recognized as a Patriotic Employer for its support of employee participation in America's National Guard and Reserve Force.

Blunck and KPI-JCI were nominated by mechanic Wade Peterson, who is a sergeant in the DET 1 147th FSC National Guard unit.

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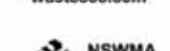


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BUSINESS BRIEFS

Dody named executive director of Ingenium

■ Ingenium, an environmental services company, has named Heather Dody executive director. Previously director of sales for Ingenium, and one of the company's original founders, Dody was selected to take on the new role due in part to her particular skills with messaging and advocacy, by mutual agreement of all partners.

Dody has over 16 years of experience in the sustainable waste management industry. Prior positions include time at All Chemical Disposal which was acquired by Stericycle, and director of sales at Advanced Chemical Transport.

Advanced Disposal names new director of marketing

■ Advanced Disposal has promoted Mark Nighbor to director of marketing and sales. Nighbor will oversee the development and execution of marketing and sales programs including launching a new customer relationship management tool companywide, redesign of the company website, marketing data research and streamlined customer communication.

Prior to joining Advanced Disposal, Nighbor served as regional sales director for Veolia Environmental Services Solid Waste where he was responsible for an annual revenue quota of \$468 million. He has also held positions with Mastec Network Services, Comdisco and AT&T Business Information Services. Nighbor holds a bachelor's degree in finance and management from the University of Wisconsin in Madison, Wisconsin.

Metalico adds new scrap location in Pittsburgh

■ Metalico, Inc. has opened its sixth scrap metal recycling facility in the Greater Pittsburgh area in north suburban Conway, Beaver County.

The new facility, located 16 miles north of Metalico's Pittsburgh shredder, is ideally situated to provide further penetration into the local scrap market and to augment the company's scrap flow in a strategically desirable market.

The new yard joins sites on Neville Island and in Brownsville, Hadley, Uniontown and Sharon, Pennsylvania. Metalico Pittsburgh also has a feeder yard in Colliers, West Virginia.

The Conway site formerly housed Skip's Recycling, Inc., a subsidiary of Three Rivers Scrap Metal, Inc. Metalico acquired certain accounts and equipment from Three Rivers Scrap Metal in setting up the new operation but did not buy Skip's or assume any liabilities.

Terms and consideration for the sale of accounts and equipment were not disclosed. Three Rivers Scrap Metal, which is not affiliated with Metalico, will continue to operate its main nonferrous yard in the heart of North Shore Pittsburgh.

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BUSINESS BRIEFS

Vortex appoints Millington as European sales manager

■ Laurence Millington has been appointed European sales manager for Vortex. In his new position, Millington will be responsible for the development of sales and the coordination of marketing activities for Vortex throughout Europe. He has over 16 years of extensive experience in the industrial process equipment industry and previously served as Vortex's regional sales manager for the UK, Ireland, Scandinavia and Benelux.

Since launching its European division in 2006, Vortex has engineered and manufactured a wide range of dry material handling valve solutions for Europe's food, chemical, plastic, biomass, mineral, mining and power generation industries. Vortex works closely with plant and maintenance managers, as well as, a wide range of process engineering firms, to develop valve solutions to prevent leakage, reduce atmospheric dust and improve overall process efficiency.

Daniel Dienst, Sims CEO, set to retire this summer

■ The board of Sims Metal Management Limited announced that Daniel W. Dienst, the company's chief executive officer, will retire effective June 30, 2013. Dienst will resign from the company's board of directors at the same time.

As well as considering internal candidates, the board, along with Dienst, will commence a global search for a new CEO.

Gina McCarthy nominated as EPA administrator

■ President Obama has officially nominated Gina McCarthy to lead the Environmental Protection Agency.

McCarthy was the former commissioner of the Connecticut Department of Energy and Environmental Protection. She currently heads the Office of Air and Radiation, where she tightened limits on soot and mercury emissions from power plants.

Davidson named project manager – waste systems

■ Matt Davidson has been appointed as the project manager in Vecoplan LLC's Waste Systems Center of Competency.

Davidson's responsibilities will include coordinating the design and development of large scale, turnkey systems for the processing and production of alternative fuels from biomass and waste, as well as general waste treatment systems.

Events Calendar

April 2nd

NERC Spring Workshop, Textiles Reuse and Recycling. Nathan Hale Inn and Conference Center, Storrs, Connecticut.
802-254-3636 • www.nerc.org

April 8th-10th

Aluminum Association Spring Meeting. Wild Dunes Resort, Isle of Palms, South Carolina.
703-358-2960 • www.aluminum.org

April 9th-13th

ISRI 2013 Convention and Exposition. Orange County Convention Center, Orlando, Florida.
202-662-8544 • www.isri.org

April 20th-23rd

C&D World, the Annual Meeting of the CMRA. Tampa Convention Center, Tampa, Florida.
630-585-7530 • www.cdrecycling.org

April 24th-26th

11th Annual CARE Conference. Saddlebrook Resort, Wesley Chapel, Florida.
706-428-2127 • www.carpetrecovery.org

May 5th-8th

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 6th-9th

AISTech 2013, The Iron & Steel Technology Conference and Exposition. David L. Lawrence Convention Center, Pittsburgh, Pennsylvania.
724-814-3068 • www.aist.org

May 20th-23rd

WasteExpo. Ernest N. Morial Convention Center, New Orleans, Louisiana.
800-927-5007 • www.wasteexpo.com

June 3rd-4th

32nd Annual Northeast Recycling Conference & Expo. Radisson Hotel, Manchester, New Hampshire.
800-223-0150 • www.nrra.net

June 25th-28th

Air & Waste Management's 106th Annual Conference & Exhibition. Hyatt Regency, Chicago, Illinois.
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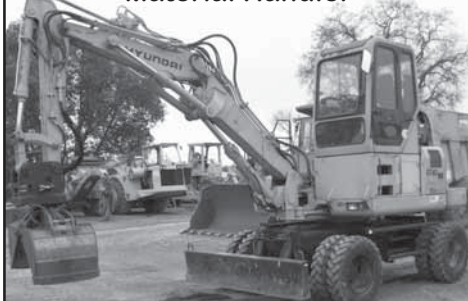
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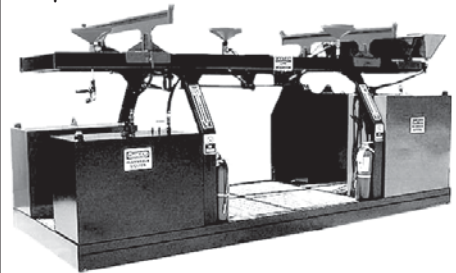


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FOCUS on METALS RECYCLING

SECTION B

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APRIL 2013

DOE proposes recycling metal from nuclear facilities

by MARK HENRICKS

mhenricks@americanrecycler.com

Metals recyclers are fighting to prevent the Department of Energy from releasing tons of metal from weapons plants and other nuclear facilities. Recycling of the metal, which would include desks and bookcases as well as structural steel, has been barred since 2000. The Energy Department said it can safely release the metal for recycling, but recyclers are worried their facilities, employees and products would be contaminated.

The department solicited input on the concept last December, generating an outpouring of opposition. The idea specifically is to give an undersecretary authority to release metals from radiological sites. The quantity of metal under consideration comes to about 14,000 tons, according to the department, and also consists of items such as spare parts and electrical cable. A department spokesperson said the proposal includes adequate safeguards.

"The department will not authorize sites to release metal from areas contaminated with radioactive material," said Robert Middaugh, communications coordinator for the department's National Nuclear Security Administration. Middaugh said only "empirically defined clean metal" would be approved for recycling.

"The material we propose to release is uncontaminated and poses no more risk than the scrap metals that ordinary citizens and small businesses routinely place in their recycling bins," Middaugh said. "Safety is the only thing that mat-



The Department of Energy has solicited feedback on the proposed release of recyclable materials from radiological sites. The request generated an enormous amount of opposition from industry organizations and businesses, who are concerned about the potential for radioactive contamination and screening costs.

ters here – we will not move forward with any recycling unless we're absolutely confident that it is entirely safe."

A group of metal recyclers strongly opposes the proposal, however, warning of significant potential safety and cost issues. The main worry is that scrap

metal with low but above-background levels of radiation will enter the stream of recycled metals as well as products made from them and by-products of decontamination.

"If such low-level radioactive scrap metal or by-product waste streams enter the scrap supply stream, they would

make their way to metal recycling facilities where they would disrupt mill operations, contaminate the mill, impose significant response costs, and potentially expose workers and the public to radiation," the Metals Industry Recycling Coalition (MIRC) said in a statement.

See NUCLEAR SCRAP, Page 7

Schnitzer Steel provides market outlook and predictions

Schnitzer Steel Industries, Inc. disclosed its market outlook for the second quarter of fiscal 2013 ended February 28, 2013.

Schnitzer expects to report a sequential improvement in its consolidated financial performance in the second quarter of fiscal 2013. For the second quarter, fully diluted earnings per share are expected to be in the range of \$0.20 to \$0.26 before restructuring charges. In the second quar-

ter, they expect to incur a pre-tax restructuring charge in connection with their announcement in August of approximately \$2 million, which equates to \$0.04 earnings per share. Actual financial performance may be materially different based on, among other factors, market conditions and the timing of shipments.

In Schnitzer's metals recycling business, ferrous export selling prices strengthened throughout the quarter, with

prices for February shipments approximately \$40 per ton higher than shipments at the end of the first quarter, while domestic selling prices weakened slightly toward the end of the quarter. The supply of scrap continued to be constrained by low U.S. GDP growth, resulting in high raw material costs which moderated the overall improvement to margins. During the second quarter, ferrous average net selling prices increased

slightly from the first quarter of fiscal 2013 and ferrous sales volumes increased approximately 15 to 20 percent. Nonferrous average selling prices are in line with the first quarter while volumes increased approximately 10 percent. The combination of higher selling price and volumes trends are expected to generate operating income per ferrous ton of approximately \$12, an increase of

See SCHNITZER, Page 2

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A Letter from the Editor

Readers,

Welcome to the April edition of American Recycler. This month, we turn our focus to the metals recycling industry.

A recent proposal put forth by the Department of Energy (DOE) has the industry up in arms. The DOE is tossing around the idea of releasing tons of scrap metal from radiological sites for processing and recycling.

And the industry has tossed the idea right back.

In fact, resistance to the proposal has been swift and nearly universal. In this month's cover story, author Mark Henricks examines why there's been such push back from metal recycling businesses and associations regarding the DOE's proposal.

And while representatives from the National Nuclear Security Administration have tried to reassure recyclers that no material would be released until it was proven clean and uncontaminated by radioactivity, what they haven't done is offer to pick up the tab for incidents of accidental contamination.

With cleanup costs for contaminated mills weighing in well above \$10 million dollars per incident, it's no wonder that recyclers aren't exactly eager to expose their outfits to that sort of liability. Recyclers who elected to process such materials would also face hefty investment costs associated with installing new high-tech radiation detection systems. And as of yet, no incentives have been offered to those who might be willing to make such an investment.

More than just the potential business and environmental liability, the biggest risk that recyclers anticipate is how the proposal will affect buyer confidence – will manufacturers hesitate to purchase and use recycled material in their products if there's a risk, however slight, that it may be irradiated? Some recyclers think not.

Regardless of how it pans out, the DOE's proposal should be watched carefully. There's a chance that they will decide to proceed despite industry misgivings. Or, perhaps the need to recycle metals from radiological sites will spawn a new niche market that one of our enterprising readers could step up and fill. Threat or opportunity? You decide.

Until next month,



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Novelis reports third quarter 2013 results

Novelis Inc. reported net income attributable to its common shareholder of \$3 million for the third quarter of fiscal 2013. Excluding tax-effected restructuring in both periods, net income for the third quarter of 2013 was \$8 million, compared to a net loss of \$11 million for the same period in 2012.

Adjusted EBITDA was \$185 million for the third quarter of 2013, compared to \$213 million reported for the same period in 2012. This decline was primarily due to the implementation of an Enterprise Resource Planning system which resulted in lost shipments, reduced productivity and stabilization costs, and negatively impacted the third quarter of fiscal 2013 by approximately \$39 million. In addition, the company

experienced unfavorable pricing dynamics in several regions, higher metal input costs in North America, and incremental project start-up costs associated with its global expansions.

Phil Martens, Novelis president and chief executive officer commented, "The third quarter was challenging as we experienced more production disruptions than expected related to our ERP implementation in North America. These implementation issues are largely behind us and production has returned to near normal levels."

Shipments of aluminum rolled products totaled 647 kilotonnes for the third quarter of fiscal 2013, flat compared to shipments of 648 kilotonnes for the same period last year.

Net sales for the third quarter of fiscal 2013 were \$2.3 billion, a 6 percent decrease compared to the \$2.5 billion reported in the same period a year ago, which included sales from the Company's three foil plants in Europe that were divested. In addition, sales were also impacted by lower conversion premiums as well as lower average aluminum prices when compared to last year.

For the third quarter of fiscal 2013, Novelis reported liquidity of \$775 million. Free cash flow was a negative \$309 million for the third quarter of 2013, primarily due to capital expenditures of \$193 million, a \$107 million bond interest payment and negative changes in working capital.

United States Steel prices convertible notes

United States Steel Corporation has priced its public offerings of senior convertible notes and senior notes.

The company announced the pricing of its public offering of \$275 million aggregate principal amount of 2.75 percent senior convertible notes due 2019. The company has granted the underwriters a 30 day option to purchase up to an additional \$41.25 million aggregate principal amount of the convertible notes on the same terms and conditions to cover over-allotments, if any.

The convertible notes will pay interest semi-annually in arrears on April 1 and October 1 of each year beginning October 1, 2013 at a rate of 2.75 percent per year, and will mature on April 1, 2019, unless earlier redeemed, repurchased or converted. Upon conversion, the company will pay

or deliver, as the case may be, cash, shares of the company's common stock or a combination of cash and shares of the company's common stock, at the company's election. The conversion rate will initially be 39.5491 shares of common stock per \$1,000 principal amount of convertible notes (representing an initial conversion price of approximately \$25.29 per share of common stock and a conversion premium of approximately 30 percent based on the closing price of \$19.45 per share of the company's common stock on March 20, 2013), subject to adjustment in certain circumstances. The offerings are expected to close on March 26, 2013, subject to customary closing conditions.

The company also announced the pricing of its public offering of \$275 million aggregate principal amount of

6.875 percent senior notes due 2021. The senior notes were priced at 100 percent of the principal amount. The senior notes will pay interest semi-annually in arrears on April 1 and October 1 of each year beginning October 1, 2013, and will mature on April 1, 2021, unless earlier redeemed or repurchased.

The company intends to use the net proceeds from the offerings for repurchases or repayment of indebtedness, focusing on near-term maturities, and any remaining proceeds for general corporate purposes.

J.P. Morgan Securities LLC, Barclays Capital Inc., Goldman, Sachs & Co., and Morgan Stanley & Co. LLC are the joint book-runners for these offerings.

Schnitzer

■Continued from Page 1

100 percent from the first quarter of fiscal 2013.

In the auto parts business (APB), higher commodity prices, stronger car purchases and the incremental volume contri-

bution of acquisitions are expected to result in an increase of approximately 10 percent in revenues from the first quarter of fiscal 2013. APB's operating margin, excluding the impact of new locations added since the first quarter, is expected to be approximately 10 percent, a sequential increase over the prior quarter's performance. During the second quarter, APB added 10 new locations which, as anticipated, will result in approximately \$2 million of transaction, integration and startup costs which will impact APB's reported

operating margin, expected to be approximately 7 percent, in the quarter.

In their steel manufacturing business (SMB), average selling prices are expected to increase slightly from the first quarter while sales volumes are expected to be approximately 25 percent lower than the first quarter. Higher costs for raw materials, a lower utilization rate resulting from planned maintenance and a typical seasonal slowdown in demand during the quarter are expected to result in SMB operating income of approximately \$1 million.

UPCOMING Section B editorial FOCUS TOPICS

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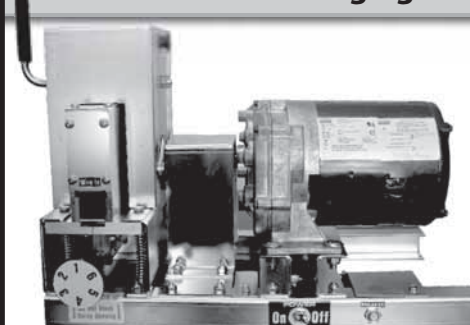
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Universal Scrap purchases equipment from Anheuser-Busch

Chicago-based Universal Scrap Metals (USM), one of North America's largest wholesalers and processors of scrap metal, disclosed expansion of its operations to include a recycling facility in Georgetown, Kentucky. USM's investment includes purchasing state-of-the-art recycling equipment from Anheuser-Busch Recycling Corporation (ABRC). This equipment is used to help prepare used beverage containers for processing at aluminum smelting facilities. ABRC has a long relationship with USM and is fully supportive of their continuing efforts to expand this facility and their business.

Operating under the name USM Alumacycle, the deal is a group investment between parent company Universal Scrap Metals, Inc., USM Processing, Ltd., and USMe, LLC. USM Alumacycle president, Jason Zeid, said, "This recycling facility in Kentucky will expand USM's already vast aluminum processing capability and allow us to service more customers in the south."

To further growth and expansion, USM has put together a mergers and acquisitions program. The company now operates in eight locations



COURTESY OF UNIVERSAL SCRAP METALS

throughout the Chicagoland area, Central Illinois and Kentucky.

"Operating this new facility is a monumental step in line with our goal of providing the best recycling and processing solutions possible," said USM's chief operating officer, Pat Madison. "This will allow USM to process off spec used beverage cans and other aluminum alloys in a state-of-the-art facility that is unique to the industry and, in turn, allow us to offer higher recovery on these cans and aluminum alloys to

manufacturers, dealers, waste companies and mills."

The recycling facility was designed and engineered from the ground up three years ago by Machinex, a company specializing in sorting technology for the recycling industry. The system has the capability of shredding, sorting and processing five million pounds of aluminum per month. USM Alumacycle is located in close proximity to some of North America's largest aluminum sheet mills, eliminating many

logistical issues and other costly factors of transporting aluminum commodities.

All USM operating companies work closely with sustainability platforms, environmental standards and efficiency programs to make companies work better. USM buys nonferrous, ferrous, precious metal bearing, used beverage cans (UBC), hi-temp alloys, electronic and composite metal scrap from industrial and manufacturing companies, recycling centers and independent scrap dealers.

EPA settles with H. Kramer and Co. for clean air violations

The U.S. Environmental Protection Agency (EPA) and the State of Illinois have signed a consent decree with H. Kramer and Co., to resolve violations of the Clean Air Act and state air pollution violations at the firm's copper smelting foundry in the southwest side of Chicago. Under the terms of the settlement, H. Kramer will spend \$3 million on new state-of-the-art pollution controls for the foundry, pay a \$35,000 penalty and provide \$40,000 to retrofit diesel school buses operating in the neighborhood and surrounding areas with controls to reduce air emissions.

The settlement resolves the federal government's allegations that H. Kramer failed to maintain and operate furnaces at the foundry in a manner which controls lead emissions and that the company violated the Illinois State Implementation Plan by causing or allowing releases of lead into the air. The settlement also resolves Illinois' claims that H. Kramer's activities at the foundry resulted in lead emissions that caused or contributed to air pollution and created danger to the public and the environment. The consent decree requires H. Kramer to install new filters and other controls on two furnaces to reduce emissions and to continue to limit production of two lead alloys until the new equipment is installed.

My wife and I were at her high school reunion, and she kept staring at a man drinking alone at a table. I asked, "Do you know him?" "Yes," she sighed. "He's my ex-boyfriend. He took to drinking right after we split up years ago, and he hasn't been sober since."

"My God!" I said, "Who would think a person could go on celebrating that long?"

On November 22, 2011, EPA announced that air quality in part of Chicago's Pilsen neighborhood exceeds the national air quality standard for lead. EPA's determination was based on data collected from a state air quality monitor located on the roof of the Manuel Perez

Jr. Elementary School. The H. Kramer facility is located in the area that violates the lead air quality standard – which is bounded by Damen Avenue to the west, Roosevelt Road to the north, the Dan Ryan Expressway to the east and the Stevenson Expressway to the south.

The proposed settlement, lodged in the U.S. District Court for the Northern District of Illinois, is subject to a 30-day comment period and final court approval.

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EQUIPMENT SPOTLIGHT

Magnets

by MARY M. COX

maryc@americanrecycler.com

Metal recyclers are challenged to consistently achieve the highest degree of ferrous and nonferrous metal separation in order to optimize the value of these materials. Achieving maximum value while using the appropriate magnets for lifting or separating the material can lead to a smaller equipment footprint, as well as lower capital equipment expenditures and related maintenance costs.

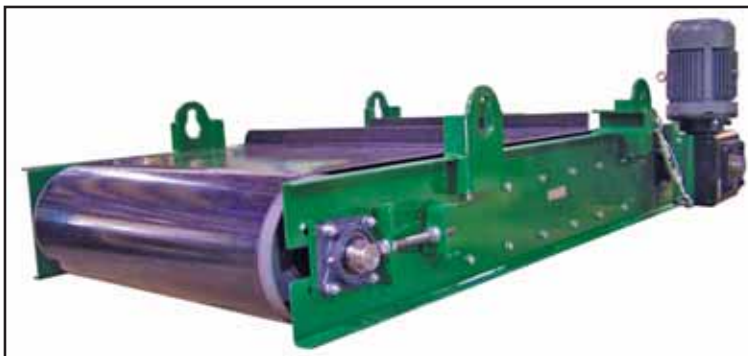
Moley Magnetics manufactures magnet systems and mobile hydraulic

“Installation time and maintenance issues, specifically generator issues, are two of the biggest issues scrap yards face when considering a magnet. It is beneficial whenever a supplier can reduce magnet system install and maintenance time. Our ESB Battery Operated Magnet offers reduced install and maintenance time. The system has the lowest ownership cost on the market because there is no generator to install or maintain. A hydraulic generator system costs more to purchase, takes about 40 hours to install and has an expensive generator to maintain, but our ESB product costs much less, installs in about 2 hours and has virtually no maintenance parts,” Slaby explained.

According to Ken Richendollar, sales manager at Ohio Magnetics, there are three basic components used in a lifting magnet system for mobile scrap handling: the power supply – typically a DC power take-off generator; the magnet controller – a device used to energize and de-energize the magnet; and, the lifting magnet itself.

Richendollar explained that DC generators can be installed on

a mobile crane as v-belt driven, hydraulically driven or even coupled into an all-in-one power supply package that often also contains a magnet controller. “It is important to properly gauge the speed at which the DC generator is rotated. To properly ensure that your generator is equipped to handle the magnet on your crane, know the magnet’s cold operating amps. A nameplate on each magnet indicates the cold operating amps that the magnet will draw when first energized,” he said.



Magnetic Products, Inc.

Richendollar said the magnet controller’s function seems simple, but is complex because a lifting magnet creates a lot of inductive energy which needs to be captured immediately when the switch is turned off. Controllers are available in many size ranges with the most popular being 20 to 100 amps. Controllers should be properly matched with the cold operating amps of the magnet involved.

Nearly all scrap magnets are circular in design, wound with aluminum conductor and require 230 volts DC to operate. Applications vary from unloading junk in pickup trucks to loading rail cars with processed auto shred and everything in between. Scrap magnet sizes range from 20” to 93” in diameter. Aluminum coils are the material of choice for today’s scrap magnets because they are lighter compared to copper. “When selecting a scrap magnet, know how much weight your material handling crane can lift with the boom fully extended to the side of the cab. The total magnet weight including

its load of scrap iron must be sized below what the crane can handle in its most vulnerable position so that it does not tip over during operation.

After magnet size is determined, other components in the system are sized around it,” explained Richendollar.

He said, “Our magnets can be found in junk yards, scrap processing plants, steel mills, steel service centers, rail industries and waste recycling oper-

ations throughout the world. The Ohio brand name of magnets was the first in the market to obtain ISO quality certification, and we also make our own line of DC generators, magnet con-

See SPOTLIGHT, Page 5

Manufacturer List

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Magnetech Industrial Services, Inc.
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www.magnetech.com

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

Moley Magnetics, Inc.
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716-434-4023
www.moleymagneticsinc.com

SGM Magnetics Corporation
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Walker Magnetics Group, Inc.
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800-962-4638
www.walkermagnet.com

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



Moley Magnetics, Inc.

shears. “We’ve chosen to focus on products for the scrap, demolition and railroad industries,” said Ron Slaby, owner. “We offer four different lines of magnets to metal recyclers. Our traditional DC magnets are powered by stand-alone generators, which are either hydraulically or diesel driven. We’re especially proud of the innovative ESA Fully Enclosed Hydraulic Magnet. The product runs off an existing auxiliary circuit, which installs in minutes, so one machine can use multiple tools, or one magnet can be shared on multiple machines,” Slaby stated.

Moley also offers a full line of separator magnets including induction, cross belt, plate, pulley and drum magnets. They are custom-designed to client specifications and according to the material being sorted and the degree of separation required.



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Spotlight

■Continued from Page 4

trollers, rectifiers and battery backup systems exclusively for magnet systems. We also manufacture Stearns® magnetic separation equipment, including electric magnetic drums for auto shredders, magnetic pulleys and wet and dry specialized magnetic drum separators. Ohio magnets were recently featured on The History Channel Modern Marvel's program titled Magnets."

For over 30 years, Magnetic Products (MPI) has designed and manufactured a range of magnetic separators commonly used for scrap metal processing. MPI offers suspended cross belt magnets, magnetic drums, magnetic head pulleys and eddy current separators. "Because we're aware of the challenges that recyclers face, our engineers build equipment that provides maximum ferrous and nonferrous separation, reliably – even in the harshest operating environments. MPI also provides free testing to recyclers to ensure that selected equipment meets operational, environmental and financial goals," Keith Rhodes, president, described.

MPI's patent-pending magnetic separator system significantly improves magnetic separation, when compared to traditional systems which rely on several magnets being "stacked" in the system. The MPI system uses only one magnet, providing reduced operational costs and the value of metals being recycled are improved. This new system is in use at several automotive and recycling facilities. "The anticipated market for this

equipment is widespread, with applications found in nearly all traditional recycling facilities including material recovery facilities, electronics recycling, automotive recycling, automotive shredded residue, and plastics and tire recycling," said Rhodes.

He explained that understanding the design capabilities and limitations of a magnetic separator is critical during the selection process to ensure adequate system performance. "When evaluating a magnetic separator, users should consider the magnet's circuit design and construction. Both factors are critical to ensure that equipment produces the magnetic strength required to effectively capture ferrous metals with minimum entrapment of nonferrous metals for maximum separation. Also, understanding which components of the magnetic separator, if any, require periodic inspection and/or maintenance can often mean the difference between successful or faulty magnet performance," stated Rhodes.

Increasing automation improves operations via increased throughput

and reduced operating costs. MPI's new patent-pending separation system can assist recyclers in that effort. Rhodes said that recyclers have many options when purchasing magnetic systems and when the correct magnet design is selected, the recycler should carefully evaluate the vendor's construction quality – critical for reliable performance – and service capabilities. "Both factors are as important as design and price and should never be overlooked," he concluded.

Q: What kind of cigarettes do hippies smoke?

A: Yours.

AR EQUIPMENT SPOTLIGHT

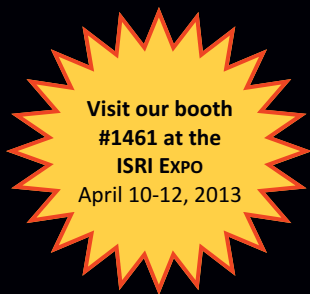
To be included in the spotlight, you must manufacture the equipment featured. We require a company name, contact person, telephone number and, if applicable, a website address.

To be listed in the appropriate spotlight, please call 877-777-0737.

UPCOMING TOPICS

05/13	Truck Scales
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A Closer Look

by Donna Currie

American Metals Company

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Irwin Scheinbein, president of American Metals Company in Arizona, described the company as “a full service scrap metal and steel service center facility.” The company covers a broad spectrum of the industry with no one particular area of specialization, and has all of the typical equipment – shredders, balers, shears, flatbeds, dump trailers and roll-offs.

The new steel he stocks includes sheets, strips, angles, rounds and more. He also stocks some aluminum shapes and can get other materials for customers at their request.

The business started in about 1957, according to Scheinbein, as Baseline Iron & Metal, and went through several purchases and name changes until it emerged as American Metals in the early 80s.

Three years ago, the facility was enlarged from four acres to five, and other improvements are in the works – including a new warehouse for new steel which will allow the nonferrous materials to move into the current new steel area.

The impetus for the remodel has been a growth in business and “doing this for the future,” Scheinbein said. The new layout is designed for “better handling of materials to get it through the facility.”

Scheinbein said that his father, Jack, had been in the scrap metal business in Georgetown since 1943, but then moved the family to Phoenix in 1959. “I was born into this industry,” Scheinbein said. As a youngster, he sorted colored tabulating cards because the white cards had a higher value.

He said that although he got his start in paper recycling, “my love affair is the metals end of the industry.”

Scheinbein's father had planned on semi-retiring, but instead went back into the scrap business in 1963 as Valley Salvage. In 1965, Scheinbein's brother joined his father's business and Scheinbein followed in 1972.

Scheinbein said that although he loves the scrap industry, he gets frustrated with issues beyond his control, like metal theft and the resulting legislation. He said that many people think the metal thieves are out of work and desperate, but in reality there are a lot of organized metal theft rings. “This is a world-wide problem,” he said.

As part of the Arizona Scrap Recycling Association, Scheinbein spends time with legislators and law enforcement to “establish an understanding and a rapport.” He said that regulating the scrap industry was not the answer to the theft, and that the remedy must include all parties.

Scheinbein said that it would help deter the thefts if the prosecution was based on the amount of damage done during the theft. He said that in order to remove copper from a building, thieves will do thousands of dollars' worth of damage to the property, tearing through drywall and damaging plumbing systems.

However, penalties are based on the value of material stolen. He said the local community, including churches and developers, have suffered losses of air conditioning units for the value of the scrap. The thieves dress in uniforms that look like they work for an air conditioning company so they can inspect the units during the day. They come back at night to finish the job.

In some instances, thieves take live electric wires – they have the equipment and the knowledge to do the job, but it leaves homes and businesses without power until the wires can be replaced.

It's not just metal theft rings that he's fighting, but also companies that buy aluminum cans at more than market price so they can transport the cans to other states that have deposit fees.

While those other states suffer the financial damage from those illegal transactions, Scheinbein said that customers don't understand what's going on. “The public thinks the legitimate scrap dealer is cheating them” since those legitimate companies are paying realistic prices for the cans.

Meanwhile, California has changed its rules for buying cans so that if someone is not representing a recycling center, they cannot sell large quantities of cans at one time. But the thieves find ways around the rules.

One answer would be to have a nationwide system for can recycling. “I think it would be better than what we have now,” Scheinbein said, “but with every system, there is a way to beat the system.”

Even with all the problems inherent in the business, Scheinbein enjoys what he does, and is proud of the reputation he has in the industry. But the best thing is “the satisfaction of getting material in as miscellaneous co-mingled, getting it through the facility, and getting it shipped to a consumer.”

Four arrested in school bus theft and scrap operation

Eight yellow, 40' school buses owned by Chicago-based Sunrise Transportation, Inc. were recently stolen and scrapped. The theft occurred after the business had closed for the day, and was not discovered until the next morning.

Onboard GPS units apparently survived the metallic carnage, and directed police to a local scrapyards, SRV Metal Scrapper. By the time authorities arrived on-scene, the buses had been shredded and reduced to scrap, but Sunrise's logo could still be deciphered amongst the remains.

Several individuals fled upon the authorities' arrival. A total of four people were taken into custody, including the owner of the parts yard, Sergio Quintero, who attempted to hide. Police apparently found Quintero hiding above the drop ceiling inside of the yard's office.

Sunrise Transportation estimated that the loss of the buses at \$250,000. As scrap, the buses likely brought in \$1,500 to \$3,500 each.

Quintero was charged with felony possession of a title or registration that has not been assigned, and ordered held in lieu of \$25,000 bail.

Coffeyville Resources Refining to settle violations

Coffeyville Resources Refining & Marketing (CRRM) has agreed to pay a \$556,244 civil penalty to settle alleged violations of the Clean Water Act at its facility in Coffeyville, Kansas, according to the Environmental Protection Agency (EPA). In addition to paying the penalty, CRRM will pay \$1,746,256 for reimbursement of federal response costs associated with the cleanup of the Verdigris River following a 2007 flood and oil spill.

On July 1, 2007, CRRM discharged approximately 2,145 barrels of crude oil, diesel fuel and oil water from its petroleum refinery into the Verdigris River during a flood event.

“The settlement with CRRM requires the company to make upgrades to its facility that will protect human health and the

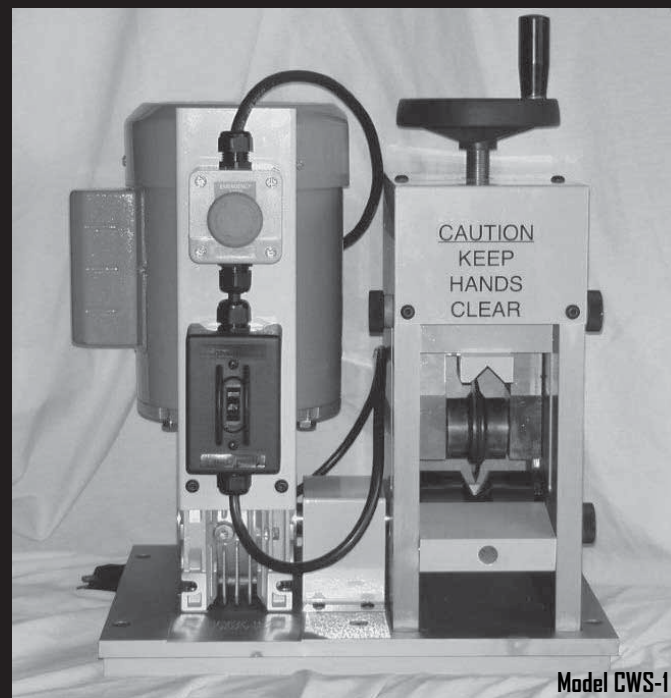
environment from future spills,” said EPA Region 7 administrator Karl Brooks. “In addition to these changes, CRRM is required to pay back the taxpayers for the response costs associated with cleaning up their spill.”

CRRM will also complete other projects to further mitigate the risk of illegal spills or discharges. Among these are the completion and installation of river modeling and monitoring procedures and the implementation of a Wet Weather Plan and training of refinery personnel to ensure proper emergency shutdown of the refinery in the event of a future flood.

The consent decree is subject to a 30 day public comment period and approval by the federal court.

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Nuclear scrap

■Continued from Page 1

"In addition, even the perception that radioactive scrap metal has entered the stream of commerce would impact negatively the entire metal market and the use and acceptance of the many products containing recycled metals," according to the group, which includes the American Iron and Steel Institute, Steel Manufacturers Association, the Nickel Institute and other industry groups.

The group wants only the release of materials that have no detectable radiation levels. Steel Manufacturers Association president Thomas Danjczek said steel mills, which use 70 percent recycled materials for feedstock, today have a zero tolerance level for metals that have radiation levels above the naturally occurring background level. All mills have radiation detectors installed at multiple points during the manufacturing process, he said. Any alarm, false or real, causes an immediate investigation.

The cost of actual radioactive contamination can be significant. The industry said that since 1980, mills have experienced meaningful contamination incidents 89 times. These often involve measuring instruments containing radioactive material that are accidentally introduced into the recycling stream. Contamination may also occur from metal used in applications such as pipelines, where exposure to naturally occurring radiation in crude oil can lead to radiation buildup over time.

When contamination occurs at a mill, it may need to be shut down for

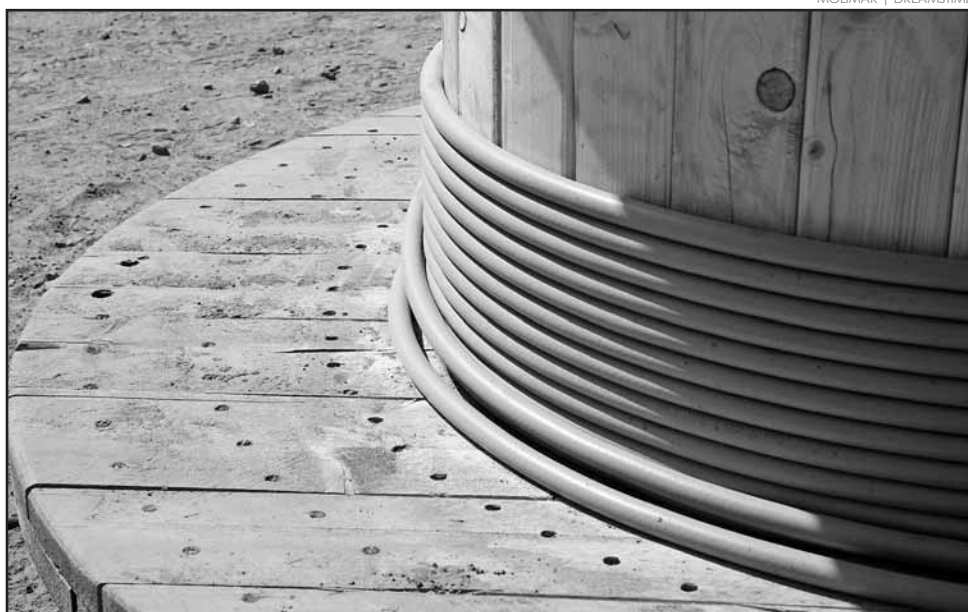
weeks for cleaning, repair and replacement of tainted equipment. The cost, according to MIRC, can range from \$12 million to \$24 million per incident. "It's a catastrophe when one of these sources gets past us," Danjczek said.

Recyclers also worry that workers may be harmed. The Department of Energy suggests releasing any metal that could be shown to result in less than 1 millirem above background to a person in a calendar year. While this is a small amount, workers might be injured from repeated exposure to multiple metal batches with that amount of radioactivity, according to opponents.

Environmental groups are joining with steel makers and recyclers to oppose the plan. One of the most vocal is the Nuclear Information and Resource Service (NIRS), a Takoma Park, Maryland, environmental advocacy group. "Since putting radioactivity into the metal supply is inherently unsafe, there is no way to do it safely," said Diane D'Arrigo, the NIRS radioactive waste project director.

D'Arrigo said metals recyclers would have to get new detectors capable of detecting alpha and beta radiation in addition to the gamma ray detectors that are already installed. The metals recycling group also said its existing detectors would have to be desensitized to reduce the number of false positives occurring from incoming metal with radiation levels above background.

Metal industry sources warn that allowing any amount of radioactive material at all into the recycling stream could cause fearful consumers to stop buying products that could possibly contain metal recycled from radiologi-



The quantity of metal under consideration comes to approximately 14,000 tons and consists of items such as spare parts and electrical cable.

cal sites. This could cause recycling rates to fall, they predicted.

Danjczek said the combination of worries makes any consideration of recycling materials from radiological sites unacceptable. "We have zero tolerance," he said. "We don't want to release anything has been nuclear-contaminated, potential or real."

Danjczek said that these risks far outweigh any benefit. If all 14,000 tons of metal proposed for release were in fact recycled, it would represent only a tiny fraction of the tens of millions of tons of metal recycled each year, he said. Most of it would likely be steel, which sells for only pennies per pound, and metal from these sites would have to be discount priced to cover the possible risk of contamination, he said. "It just isn't worth the dollars."

The Department of Energy is now evaluating the feedback on its proposal.

"We will fully address all public comments we received as part of this process," Middaugh said.

D'Arrigo believes the department will attempt to go forward with the proposal. She worries that more of the one million or more tons of scrap metals identified in the radiological sites might be considered for release. The result could wind up in overseas facilities that lack the radiation detectors of U.S. facilities, because once released the materials will not be tracked.

Meanwhile, however, the measure's opponents are digging in their heels. "We have a good business in this country," Danjczek said. "Recycling saves a phenomenal amount of energy. We're not going to screw this up with radioactive material, no matter what the Department of Energy wants to do."

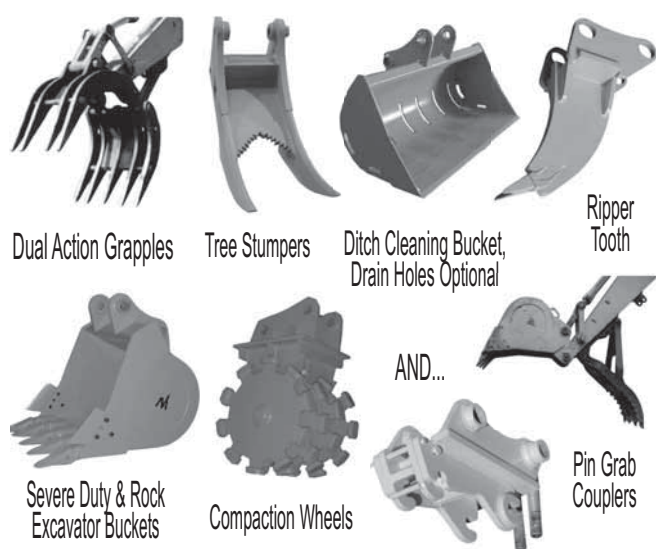


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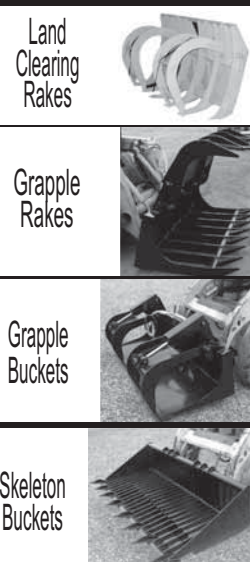
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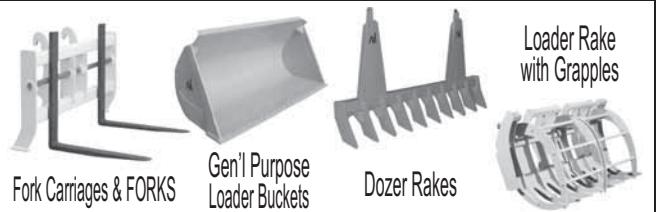
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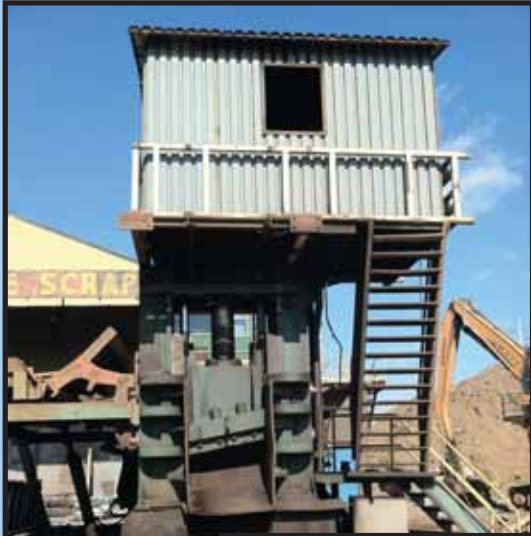
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