



American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

Canada-Michigan solid waste synergy

by MIKE BRESLIN

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According to the United States Environmental Protection Agency's (EPA) most recent estimates, Canada exports approximately 4 million tons of municipal solid waste (MSW) to the United States each year while the United States exports roughly 12,000 tons a year, primarily from Maine to New Brunswick.

"Currently, MSW is not counted and reported to EPA as it crosses the border," said Richard Yost, press officer at the EPA. "When MSW is exported from Canada into the United States it is still considered non-hazardous. EPA does not regulate the transportation of non-hazardous waste," he added.

By volume, MSW is Canada's largest export and most all of it goes to United States landfills for the simple reason it is a whole lot cheaper. That explains why many large landfills are situated just across the border from Canada's major population centers.

Most volume comes from densely populated southern Ontario and is trucked across the border to nearby Michigan. In 2009, the Michigan Department of Environmental Quality reported that the state imported 8,814,076 cu. yds. of Canadian municipal and commercial waste into its landfills, or about 19 percent of the state's total landfill volume.

But this is not necessarily a bad thing. Many see it as a potentially

positive growth industry for Michigan and other states.

"I believe that recycling and material flows, are a basic building block in the reconstruction of the American economy," says Pierre Bélanger, associate professor at Harvard's Graduate School of Design. There he teaches graduate courses on landscape, infrastructure and urbanism in the interrelated fields of planning, design and engineering.

Before Harvard, Bélanger was co-director of the Centre for Landscape Research at the University of Toronto. He had also worked as a project manager for Canada's largest reforestation and bioengineering contractor. Bélanger is a registered landscape architect and urban planner, certified in Canada as a surface miner and has been widely published on urban infrastructure and issues related to waste ecologies.

Unlike most academics, Bélanger has industry experience and has examined urban waste generation flows from both sides of the border.

Even compared to other states, tipping fees in Michigan are extremely low. Typical fees for landfill contracts in Michigan are on the order of \$15 dollars per ton, not including transportation costs. Weigh that with recently published rates from the City of London, Ontario, located approximately 100 miles north of the border – residential waste from outside London's service area is charged at Can\$150 dollars per metric ton.



PHOTO BY RPERNELL | DREAMSTIME

Besides having an excellent highway and rail system, Michigan also has numerous commodity port facilities which help to alleviate road congestion and curb emissions.

"The discrepancies in prices between dumping in Ontario and Michigan have to do with the environmental regulations which are so considerable on the Canadian side that it makes the costs of land filling extremely prohibitive," Bélanger explained. "It's very difficult to get a landfill permitted in Canada. The geology is completely different than in Michigan, therefore infrastructure costs for building landfills in Canada are much higher."

According to Bélanger, Michigan has a thick, practically impervious layer of Devonian clay that covers almost the entire state, which is a major advantage for landfill ecology when compared with frac-

tured bedrock in southern Ontario and eastern states.

"Issues surrounding the contamination of groundwater in Canada are much more considerable as well. The period of post-landfill operations and maintenance are completely different. For example, in Michigan you have to maintain a landfill for a few decades, whereas in Canada they have to be managed in perpetuity. You can imagine what the differences in costs for landfill operations are. It just makes more sense to drive a few hundred kilometers."

Despite the common sense of the economics, cross-border waste flow is a polit- See SYNERGY, Page 4

Green technology expected to grow to \$800 billion by 2012

Access to clean technology remains the focus for the global transition to a resource-efficient and green economy. In 2009, global investments in renewable energy power generation (\$140 billion) far exceeded that of fossil-fuelled power generation (\$110 billion).

New analysis from Frost & Sullivan finds that the global market value of traditional environmental goods and services, renewable energy and emerging low-carbon activities was estimated at \$7,770 bil-

lion in 2007-2008, with a growth potential of 45.0 percent by 2015.

With the rise in energy costs and escalating threat of global warming, many businesses are recognizing that the use of green technology will help them reduce their carbon footprints and minimize waste.

Over the last decade, many countries in the Asia Pacific have stepped up initiatives to preserve the environment. Japan, South Korea and Australia are at the fore-

See GREEN TECH, Page 6

Waste in the walls: Insulation that keeps paper out of landfills



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Greenstar and Keep Houston Beautiful clean up

On April 2, 2011, Greenstar Recycling and Keep Houston Beautiful helped clean and landscape a neglected area in Acres Homes, a neighborhood just north of downtown Houston. This project is part of the national "Adopt a Ditch" program. The overall scope of this nationally acclaimed project is to raise the quality of life by keeping ditches free of litter and debris while improving the storm water and transforming the area into a cleaner, more environmentally pleasant place.

"We are proud to support the beautification of Houston," said Matt Delnick, Greenstar CEO. "Our Greenstar volunteers worked alongside 100-150 other members of the local community to clean up an area that was used as an illegal dumping ground in the past. We're working together to transform this polluted ditch into a place of pride for local residents."

One of Greenstar's newest partners, the Houston Dynamo, also raised their

hands to support the initiative. The backing from both Greenstar and the Dynamo together gave strength for Keep Houston Beautiful to move forward with the project as an additional site for the annual Keep Houston Beautiful Day.

The City of Houston's Department of Public Works and Engineering Right-of-Way and Fleet Maintenance Division are also behind this effort in landscaping two ditch sections, which include tree planting along the edge, installation of yellow flag irises in the ditch, and installation of bollards to help prevent illegal dumping and parking. Volunteers cleaning the ditches placed all recyclables in Greenstar's purple recycling carts.

Professional landscape architect Keiji Asakura of Asakura Robinson Company LLC, provided direction and guidance to ensure the program's success. Drought tolerant plants native to Texas temperatures were used, reducing the need for frequent watering. Trees



donated by Home Depot and irises from TreeSearch Farms were also planted.

Keep Houston Beautiful has held an annual cleanup day in partnership with the Mayor of Houston and City Council for 30 consecutive years. Adopt-A-Ditch

is an expansion of the successful Adopt-A-Block program that is a partnership between the City of Houston, Keep Houston Beautiful, local merchants, volunteers, and residents.

RailAmerica reports February 2011 monthly carloads

RailAmerica, Inc. reported that its total freight carloads for the month ended February 28, 2011 were 63,347, down 5.5 percent from 67,041 in February 2010. The company had decreased shipments in February 2011 in 9 out of 12 commodity groups compared to February 2010.

Carloads were negatively impacted by weather, which resulted in temporary disruptions of service at certain railroads.

Coal declined primarily due to shipments in the Central United States. Agricultural product shipments were down primarily due to lower shipments in the Midwest and Northeast regions.

The largest increases were in pulp, paper and allied products and chemicals primarily due to shipments in the Southeast and Central regions, and chemical carloads were higher due to increases in the Northeast and Southeast regions.

Product companies to eliminate four billion pounds of packaging

The Grocery Manufacturers Association (GMA) announced the results of research indicating that food, beverage and consumer product manufacturers anticipate eliminating 4 billion pounds of packaging waste from 2005 to 2020. Over 1.5 billion pounds have already been avoided since 2005, and another 2.5 billion pounds are expected to be avoided by 2020. The four billion pounds represents a 19 percent reduction of reporting companies' total average United States packaging weight.

The 1.5 billion pounds of packaging avoided since 2005 includes more than 800 million pounds of plastic and more than 500 million pounds of paper. Packaging improvements have spanned most product categories, with no single category dominating. Companies reported that they achieved the 2005 to 2010 reductions through the success of more than 180 distinct improvement initiatives that included package redesigns and increased use of recyclable inputs.

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Synergy

Continued from Page 1

ical hot potato on both sides of the border, driven largely by the environmental movement and reactionary politicians.

At the same time, cities and states across North America are faced with ever higher landfill expenses and regulatory hurdles to establish new sites.

The City of Toronto, for example, ended its waste disposal contract with the Carlton Farms Landfill in Michigan operated by Republic Services at the end of 2010. For decades, Toronto had been shipping roughly one million tons per year to landfills in Michigan.

"Toronto was being criticized by its own residents and by the United States," said Bélanger. "There was a lot of discussion in Michigan in terms of its own environment and economy and whether or not the reliance on import of solid waste from Canada is really a legitimate source of revenue. I think on a political level there is decreased support for this flow on both sides of the border, but from a landfill operator and industrial perspective, it makes almost perfect sense."

As of January 1, all of Toronto's waste requiring landfill disposal goes to their city-owned Green Lane Landfill southwest of the City of London, approxi-

mately 125 miles from downtown Toronto. The 320 acre landfill is expected to ingest approximately 800,000 tons during 2011. If Toronto can meet its ambitious 70 percent recycling recovery rate, the site's life expectancy is projected to 2033. In 2009, Toronto diverted 44 percent of residential waste from landfill, eliminating 363,891 tons.

Mark Watson, area president for Republic Services in Michigan, indicated that Toronto's halt in exports affected Carleton Farms Landfill. "Private industrial-commercial-institutional waste haulers continue to take advantage of Michigan's competitive landfill assets. Carleton Farms has taken the appropriate actions to reduce costs consistent with the loss of volume including a one-third work force reduction at the site.

Carleton Farms produces enough electricity for a city of 30,000 people. The loss of municipal waste will have a negative impact on gas production. Further impact from the loss of the Toronto contract resulted in a reduction of local, county, and state revenues from host fees and taxes totaling upwards of \$1 million with Sumpter Township also initiating layoffs. These were good, high paying Michigan jobs. The State of Michigan is trying to raise fees on all waste disposals, including Michigan trash, due to their loss of revenue from out of state waste."

Most enlightened jurisdictions in the United States and Canada have implemented various recovery and recycling programs. Besides reducing volume and extending landfill life, these programs create revenue from recycled commodities to help offset municipal disposal costs. Some cities in Canada are among the most progressive recyclers in the world.

Nevertheless, even with decreasing volume and with the number of North American landfills shrinking tremendously over the past 20 years, and despite the best conservation and recycling programs, landfills will most likely be needed forever.

According to EPA, the number of landfills in the United States shrunk from 7,924 in 1988 to 1,908 in 2009. It seems logical that if landfills must exist, even

though in smaller numbers, ideally they should be centrally located near dense population centers in areas that are best geologically-suited to the purpose.

"This lends tremendous possibilities toward an understanding how the state of Michigan could actually reposition itself and provide itself with a new image of innovation related to waste ecology and the recycling of material flows. Waste management corporations should be sponsoring forward-looking visions," Bélanger suggested.

He may have a valid point when looking at Michigan's current economic situation. Unemployment in January was 10.7 percent, among the highest states in the country and well above the national average of 9 percent. In late March, Governor Rick Snyder announced that Michigan would become the first state to cut unemployment benefits from 26 to 20 weeks to help reduce the tax burden on businesses.

Compounding that, Michigan was the biggest loser in the 2010 census, a 0.6 percent loss in population over 10 years. Puerto Rico, a United States territory, was the only other population drop. All other territories and states had population growth and overall national population growth was 9.7 percent over 10 years.

The loss of automotive related industry and other manufacturing from Michigan is cited as the primary cause for the decline. Detroit's population dropped 25 percent over the past 10 years to its lowest level in 100 years.

Obviously, Michigan needs economic stimulation in the form of new industries that can support good paying jobs. "It's a matter of waste ecology and waste economics. What is beginning to alter the scene is an understanding that waste itself is both a commodity and a resource. While that may sound simple and basic, it's a tremendous change from what we've been doing for the past hundred years," said Bélanger.

What Bélanger suggests as a potential solution to Michigan's economic woes and Canada's demand for cost-efficient waste ecology is logical when seen objectively without international posturing.

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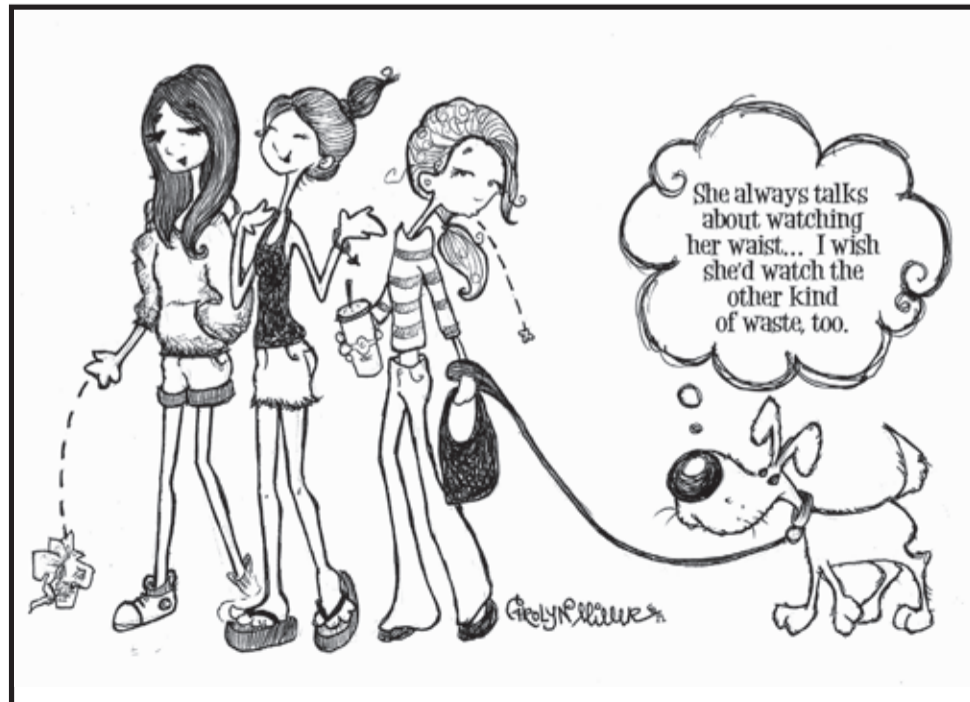


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Employees sentenced for Clean Water Act felonies

Three officials of Ecological Systems, Inc. (ESI), an oil reclamation company that operated a centralized waste treatment facility in Indianapolis, Indiana, were sentenced in United States District Court, Southern District of Indiana for felony violations of the Clean Water Act. The prosecution stemmed from ESI's intentional discharges of untreated wastewater and stormwater from its facility directly into the Indianapolis sewer system.

Joe Biggio, ESI's former operations manager and executive vice president, was sentenced to 3 years probation, a \$15,000 fine, and community service, after having previously pled guilty to two counts of CWA criminal violations and one violation of the federal false statements statute, 18 U.S.C. 1001. Biggio's community service requires him to lecture graduate students seeking degrees in business management regarding his case and criminal conviction.

Mike Milem, former operations manager, was sentenced to 6 months home detention, 3 years probation, a \$5,000 fine and community service, after he previously pled guilty to one criminal violation of the CWA. Similarly to Biggio, Milem's community service requires him to lecture students in Indiana colleges regarding his case and criminal conviction.

Mark Snow, former lab manager of ESI, was sentenced to 3 years probation, a \$5,000 fine and 8 hours of community service per month during the duration of probation, after he also pled guilty to one criminal CWA violation.

In addition, all three defendants are prohibited from applying for any environmental license or employment in the environmental field without disclosing their felony convictions to any such licensing board or prospective employer.

The investigation began after the Indiana Department of Environmental Management received complaints from several Indianapolis homeowners that thick, oily wastewater was flowing into their yards from sewer manholes after a heavy rainfall on February 11, 2009. ESI was required to have sufficient storage capacity to handle wastewater from this type of wet weather event, but it did not.

In order to deal with the excess wastewater, Milem and Snow decided to directly discharge untreated oily wastewater into the Indianapolis sewer system by pumping wastewater through hoses that bypassed ESI's treatment processes. As a result, the wastewater received no treatment, and was discharged into the sewer system leading to the City of Indianapolis' wastewater treatment plant. The discharge continued for approximately 8 hours and resulted in a discharge of approximately 300,000 gallons of untreated wastewater. In the hours after this discharge, the oily sludge-like waste emerged from several sewer manholes downstream of the ESI facility, contaminating residential properties.

The subsequent investigation revealed that ESI had not been adequately treating the waste it took from customers for reclamation for a significant period of time, in part because

See FELONIES, Page 6

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Association of Vermont Recyclers hold 13th Youth Environmental Summit

High school students from around the nation will attend the 13th Youth Environmental Summit (YES!), July 29, 30 and 31 on the campus of Keene State College in New Hampshire. YES! is an opportunity to reward, challenge, and encourage student recyclers and activists and will incorporate an intensive two day program filled with state of the art recycling and sustainability workshops specifically designed for tomorrow's environmental leaders.

YES! is organized by a steering committee of high school students, AVR, and the Youth Environmental Coalition, a grassroots network of high school environmental and recycling clubs, Earth Groups, and involved students. YES! is co-sponsored by the Northeast Resource Recovery Association, The Presidents Council for Sustainable Future at Keene State College, the Environmental Science Department of Antioch New England, and the National Recycling Coalition.

The Association of Vermont Recyclers, an environmental non-profit, began in 1982 as a grassroots effort to support recycling programs in Vermont. AVR programs reach over 30,000 Vermonters annually through partnerships with waste managers, state agencies, schools, businesses, events, and coalitions.

Students interested in participating in the planning process are encouraged to contact AVR executive director Norm Staunton at director@vtrecyclers.org. Students interested in attending the Youth Environmental Summit will be able to register online in the coming weeks. Interested attendees should check www.vtrecyclers.org for registration materials and be sure to follow the YES! facebook page.

Attendance at the 3 day event is limited to 175 student-activists with a demonstrated interest in planning and leading environmental action campaigns in their schools and communities. Tuition for the event is only \$225, which includes two nights lodging at Keene State College in Keene, New Hampshire, all meals from a menu of local and sustainable producers, world renowned trainers and speakers and supervision by AVR staff and volunteers. Tuition is subsidized by AVR, its members, and the co-sponsors.

The theme of this year's Summit weekend is "Yesterday, Today, and Tomorrow" and will incorporate expert presenters, training sessions, outdoor adventures, local foods, hands-on learning and a number of other YES! traditions.

Felonies

Continued from Page 5

major pieces of equipment in the treatment process, such as pumps, needed to be repaired or replaced, and because badly-needed storage space was not available at the facility. Investigators also determined that ESI had misrepresented to EPA and Indiana the storage capacity it had to handle such a rainfall event as the one that occurred on February 11, 2009.

Biggio, as the executive vice president of operations, knew that ESI was hiding its noncompliance in several ways. Instead of reporting all of its wastewater samples to the city, as required by its permit, he "cherry picked" the data and only reported the "best" samples, with analytic results that

reflected lower concentrations of certain pollutants. Similarly, wastewater was collected after rainfalls, resulting in diluted samples that could be reported as "lower" pollution levels to the city. This practice of submitting false sampling results, along with making false statements to the authorities, attempted to disguise the fact that pollution discharge limits were being exceeded on a regular basis. The company's Spill Prevention, Control, and Countermeasure Plan stated it had millions of gallons more capacity than actually existed to handle spills and rain events.

The case was investigated by EPA's Criminal Investigation Division, the Indiana Department of Environmental Management, and the Indiana Department of Natural Resources. It was prosecuted by the Office of the United States Attorney, Southern District of Indiana.

Green tech

Continued from Page 1

front of this drive, while emerging economies such as China and India intend to sustain their current pace of public and private investment in all areas of the environment sector including renewable energy, waste management and green technologies.

China and India, with the highest emission intensity index of 1.51 and 1.17, respectively, have vast potential for improvements in the implementation of green practices. Stringent government

policies as well as heavy investments in green energy will raise the level of commitment in the public and private sectors.

Emerging economies such as Indonesia and Vietnam tend to accord low priority to environmental issues due to their more pressing concerns regarding high poverty levels and weak governance systems. Thailand still lacks consistency in the development and resolution of environmental issues even though it was among the first Southeast Asian countries to promote an industrialization policy based on fostering foreign investment.

Despite the lackadaisical performances of certain countries, the overall outlook for the environment industry is positive.

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Recycled plastics rebounds after recession

Influential woman of the year chosen

Navistar, Inc. and the Women In Trucking Association (WIT) presented the inaugural "Influential Woman of the Year" award to Rochelle Gorman, chief executive officer, CalArk International.

"The award is designed to shine a spotlight on the great leadership demonstrated by women in the trucking industry," said Anne Belec, vice president and chief marketing officer, Navistar. "Rochelle's dedication to trucking and her personal commitment to mentoring others is exactly what we set out to celebrate."

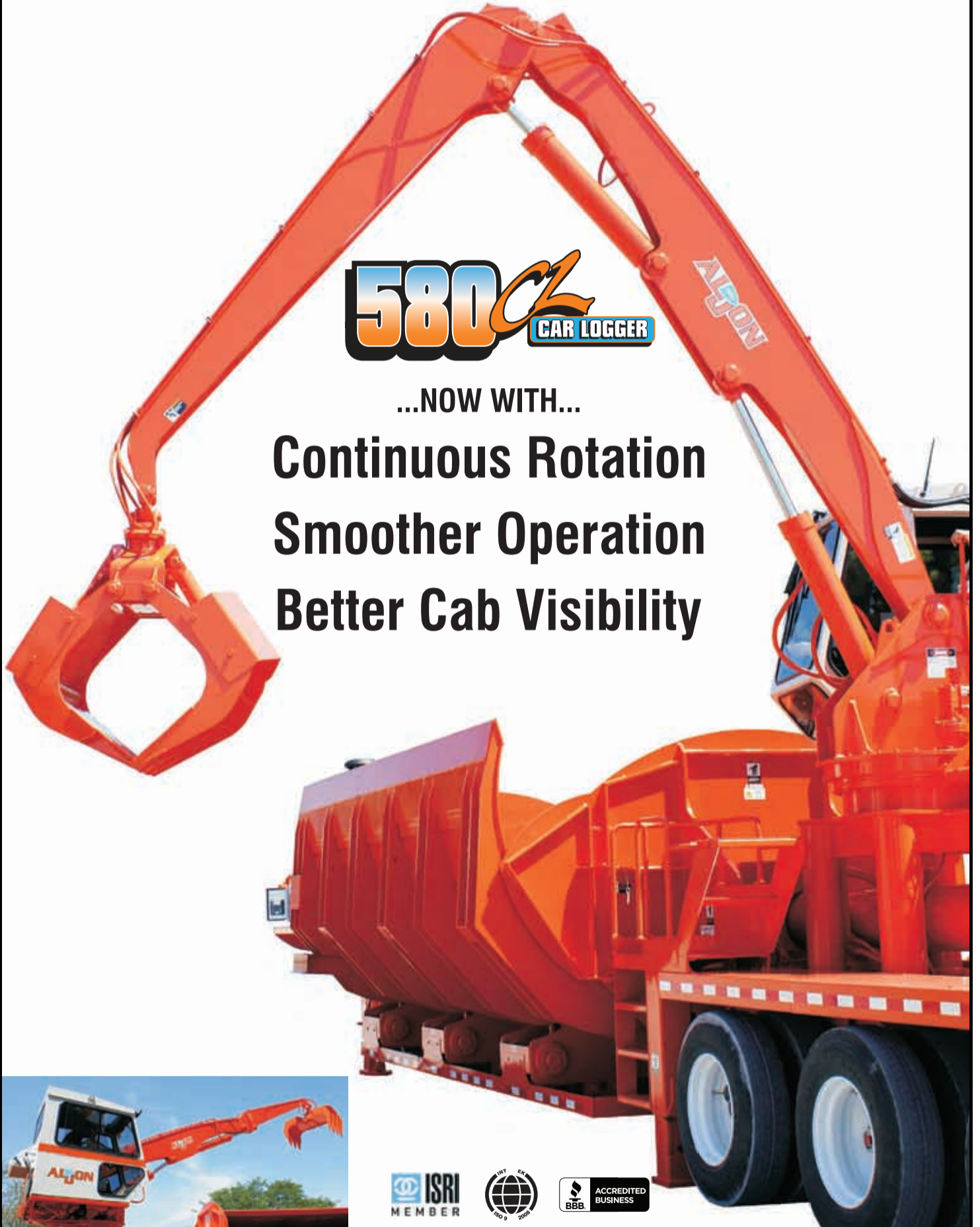
Gorman accepted her award immediately following a panel discussion about overcoming the challenges women often face in the trucking industry.

Two runners-up for this year's award were also recognized - Shelley Simpson, executive vice president, J.B. Hunt Transport, Inc. and Andreea Raaber, vice president, business development, Bendix Commercial Vehicle Systems, LLC.

The award seeks to recognize a woman who makes or influences key decisions in a corporate, manufacturing, supplier, owner-operator, driver, sales or dealership setting.



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Solarsilicon Recycling Services to increase workforce and outlets

Solarsilicon Recycling Services LLC (SRS) has acquired a 90,000 square foot industrial building in Ventura, California in an expansion that will keep the company in Ventura County, open new outlets for its products and services, increase its workforce and establish an incubator for a new manufacturing process that promises to revolutionize the industry.

SRS, which recycles unusable and off-spec silicon and processes it into usable feedstock for the solar industry, acquired the property at 2433 Eastman Avenue for \$6.3 million.

Since March the company has grown from 43 employees to 70 workers and SRS has been operating its 20,000 square foot Camarillo facility on a 24 hour, 6 day-a-week schedule to meet the demand for its products since September.

SRS also needed a larger facility to continue work it has begun on the development of a second, innovative process for

cleaning silicon that will be unique to the industry and is expected to revolutionize the silicon manufacturing process. The Ventura facility will be an incubator for this new process, and, once operational, it will become a flagship for the company's expansion throughout the Pacific Northwest, Midwest and even Europe, allowing SRS to invite national and international customers to view its manufacturing, green energy and environmentally responsible disposal processes first-hand and positioning the company as a world leader in its industry.

Short term, SRS will hire an additional 20-30 new workers with the move, and it is investing approximately \$3 million to \$5 million in new equipment that will enable the company to clean silicon to semiconductor standards and open up a new channel of distribution for its products.

Richland College receives award

The Environmental Protection Agency (EPA) announced Richland College in Dallas has received the 2010 WasteWise College/University Partner of the Year Award.

During 2009, Richland participated in RecycleMania for the first time, using thoughtful collection strategies to recycle more than 66 tons of materials and divert another 65 tons of waste from landfills during ten weeks of competition.

Richland has made a concerted effort to reuse items ranging from interoffice envelopes to old classroom doors, which are turned into desks for use around the campus. In 2009, Richland focused particular attention on waste prevention surrounding campus construction projects. Rather than tearing down buildings that were no longer in use, Richland moved them to other areas and found other uses for them.

Synergy

Continued from Page 4

Regardless of borders, Michigan sits at the epicenter Great Lakes Basin with a regional population of nearly 40 million and growing. The EPA describes the region as, "Home to more than one-tenth of the population of the United States and one-quarter of the population of Canada. Some of the world's largest concentrations of industrial capacity are located in the region. Nearly 25 percent of the total Canadian agricultural production and 7 percent of American production are located in the basin."

Besides having an excellent highway and rail system, Michigan also has numerous commodity port facilities on Lakes Michigan, Huron, Superior and Erie. The better transportation economies of shipping large volumes by water has the added advantage of keeping trash trucks off the road, relieving congestion and curbing emissions.

"Movement and transaction of wastes happen on a regional level because there are economic efficiencies. Within the great lakes region, Michigan is right across the border and willing to provide a service for Canadian cities. It's regional, whether or not its trans-boundary," said Bélanger.

Because of the recession and loss of population, Michigan saw a decrease in total landfill volume from 2008 to 2009 of approximately 16 percent. Yet, imported waste from Ontario and the United States, which represent 27 percent of all solid waste disposed of in Michigan landfills, fell only 3 percent during the same period. Toronto ceasing shipments to Michigan will have a significant impact in 2011.

"Michigan currently has ample landfill space to service overflow volumes

from Ontario while meeting local waste shed demands," pointed out Mark Watson at Republic. "On the political side, some politicians are trying to create a negative impression for out of state waste. Michigan spent hundreds of thousands of dollars a few years ago and proved that the Canadian waste had less recyclables in it and was better suited for landfill disposal than in-state waste. Southeast Michigan landfills are in an ideal location for environmentally safe and secure long term disposal. The potential does exist to develop additional infrastructure to process recycling and organic material from Ontario proving a turnkey waste management solution while creating additional jobs for Michiganders."

Michigan has the skilled workforce, technology, geology and the open space to become a leader in waste management. It is sparsely populated with an average of only 175 people per square mile compared to the national average of 80. While forestry and farming are important industries, much of the forested land has not proved fruitful for other types of agriculture. Farming waste could prove bountiful.

"I do hope that in the future we see waste management companies taking the lead in states like Michigan, since they stand to gain the most and influence a large employment sector," Bélanger concluded.

People must get past political and environmental squabbles of who is dumping garbage on whom and realize that the United States/Canadian border is meaningless in terms of regional waste transactions. Waste is a commodity under NAFTA and can flow freely between the two countries. If it makes economic and environmental sense, everyone benefits.

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ALTERNATIVE ENERGY

Dominion Virginia Power to convert coal-fired stations

Dominion Virginia Power, a subsidiary of Dominion, is planning to convert three Virginia power stations from using coal to biomass, a renewable energy source. The conversions would provide environmental and customer benefits, and generate up to \$350 million for their local economies over the next 30 years.

The power stations in Altavista, Hopewell and Southampton County are identical and went into operation in 1992. If the conversions are approved by local governments, the Virginia Department of Environmental Quality and the Virginia State Corporation Commission, they could begin burning biomass in 2013.

The total economic impact over the 30 year life of the stations would be more than \$350 million, including \$30 million in local taxes, \$180 million for the creation of more than 300 hundred jobs in the forestry and trucking industries and about \$120 million paid to the 90 employees who would work at the stations.

The fuel switch would reduce nitrogen oxides, sulfur dioxide, mercury and particulate emissions, and all of the stations would meet stringent new emissions standards established by the Environmental Protection Agency.

Dominion Generation CEO David Christian said, "Our proposal to convert these units from coal to biomass provides customers with economical electricity, delivers environmental benefits and takes advantage of a renewable, low-cost fuel source."

Virginia Governor Bob McDonnell said, "Conversion of these units to bio-

mass creates jobs and generates tax revenues in a manner that will have a positive impact on the environment. The majority of the biomass product being used – wood slash – is typically left on the ground after timber or logging operations are complete. The state is now better utilizing a product that would normally go to waste. The projects are reflective of the 'all of the above' approach we need to take when it comes to energy production in the Commonwealth. They are essential to expanding our alternative energy portfolio and closing our import gap, not to mention creating good jobs here in the Commonwealth."

Dominion plans to meet the state's voluntary Renewable Portfolio Standard, which calls for 15 percent of the company's generation to be from renewable resources by 2025. The company successfully met the 2010 milestone of four percent.

Each of these units can currently produce 63 megawatts of electricity of peaking power, running only when demand is at its highest. When converted, they would generate 50 megawatts each, but operate essentially all of the time. Together, these stations would provide electricity to about 37,500 homes.

The stations would obtain most of their fuel from the waste wood left from timbering operations and would comply with a Virginia law regulating the use of biomass for electric generation. Dominion will also be adhering to its allocated cap of 1.11 million tons per year of green wood chips and related tree materials.

Wind Simplicity receives ISRI Design for Recycling Award

The Institute of Scrap Recycling Industries, Inc. (ISRI) announced that a manufacturer of recyclable small wind turbines has been selected as the fifth annual winner of ISRI's Design for Recycling® Award (DfR).

Wind Simplicity was founded in 2004 by Alfred Mathieu, PhD, and Sharolyn Vettese, BA. The Canadian father-daughter team has succeeded in revolutionizing the design of wind turbines, making pollution-free, cost-free wind energy a practical onsite alternative.

ISRI is the force behind Design for Recycling, a voluntary program that urges manufacturers to make products that can be recycled from the start. Such design benefits not only the environment, but the economy as well as shareholders and consumers recognize the benefits of designing a product that will have several lives.

"Design engineers have a tough job in balancing safety, energy efficiency and cost with the consumer's passion for the latest and greatest technology. Too often, it seems that design engineers rarely get to the point of thinking about what will happen to the product at the end of its useful life," Robin Wiener, ISRI president, said.

"Good intentions aside, it seems most people don't give much thought to what happens to a product when it has reached the end of life. However, as time goes by and new materials and technologies are developed, the challenge that recyclers face in safely and economically recycling those products grows ever more difficult."

To address these challenges, ISRI created the concept of Design for Recycling to help protect the environment and create a sustainable means for conserving natural resources. Design for Recycling seeks to achieve two very basic goals: first, to eliminate or reduce the use of hazardous or toxic materials that may present a grave danger to the environment or put a recycler's workforce in jeopardy, and second, to discourage the use of materials that are not recyclable or manufacturing techniques that make a product non-recyclable using current technologies.

"Wind Simplicity demonstrated great creativity in incorporating DfR criteria into the manufacturing processes, thereby making their wind turbine completely recyclable," said Manny Bodner, chair of the ISRI task force on DfR.



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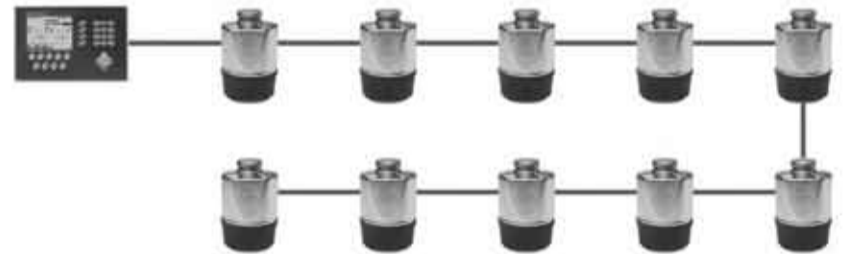
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PAPER

AF&PA United States paper reports for February 2011

The American Forest & Paper Association released their February 2011 United States Containerboard Statistics Report. For the sixteenth straight month, containerboard production rose over the same month a year ago, but may be leveling off. Total production increased 14,100 tons or 0.6 percent when compared to February 2010. Production fell compared to January 2011, with month over month average daily production down 2.0 percent.

Additional key findings from the report include:

- Linerboard production flat over last year
- Medium production up over February 2010

Their Kraft Paper Sector Report indicated that total Kraft paper shipments were 125.5 thousand tons, an increase of 11.1 percent compared to February 2010, and down 3.0 percent when compared to January 2011.

Additional key findings from the Kraft paper report include:

- Total Unbleached Kraft shipments increased over same month last year.
- Total Bleached Kraft shipments were up over February 2010.

The American Forest & Paper Association's February 2011 Paperboard Report showed total boxboard production increased by 2.8 percent compared to February 2010, but decreased 10.4 percent from last month.

Additional key findings in the paperboard report:

- Unbleached Kraft Folding production increased compared to February 2010.
- Solid Bleached Folding production also increased over February 2010.
- Recycled Folding production decreased over last month and last year.
- Inventory of Solid Bleached Kraft Paperboard saw an increase over January 2010.

Award winners help maintain record paper recovery rate

The American Forest & Paper Association (AF&PA) announced its 2011 Recycling Award winners, recognizing some of the great work being done by businesses, communities and schools across the country to recover paper for recycling.

Thanks to the ongoing daily efforts of millions of Americans, 63.5 percent of the paper consumed in the United States was

recovered for recycling in 2010. The recovery rate in 2009 was 63.4 percent. Paper recovery for recycling has increased by 77 percent since 1990.

To view a list of the 2011 AF&PA Recycling Award Winners, view this article on www.AmericanRecycler.com.

ELECTRONICS

Household battery recycling made easier in California

Thanks to a grant from the Department of Resources Recycling and Recovery (CalRecycle), the San Gabriel Valley Council of Governments (SGVCOG) is making it easier for consumers to recycle household batteries. Since 2006, the State of California has banned disposal of these types of batteries in the trash. The SGVCOG is creating a program for consumers to support proper battery recycling and management by providing convenient drop-off locations throughout the San Gabriel Valley.

In preparation for the launch of a pilot battery take-back program, SGVCOG conducted focus groups and phone survey research of San Gabriel Valley residents in 2010 that revealed more people would recycle household hazardous materials if recycling were more convenient. Research findings include:

- Only 59 percent of those surveyed were aware of the battery disposal ban.
- 56 percent of respondents still dispose of batteries in the trash.
- Residents stated that they continued to dispose of batteries in the trash despite

knowing about the disposal ban because recycling was so inconvenient.

Since the current system was clearly not working, the residents were surveyed on possible alternatives and 85 percent indicated that they are likely to participate in a retailer take-back program for used batteries and lamps, which led the SGVCOG to develop a take-back program.

The SGVCOG pilot battery take-back program will provide convenient drop off locations for consumers in the San Gabriel Valley by partnering with local businesses to provide collection services. Participating businesses display an identifying sticker in their window and place a collection box, provided by SGVCOG, within their store where consumers can properly dispose of non-working batteries. This program is the first to collaborate with local retailers in the area and identify best practices that other local governments can implement.

The collection sites range from grocery stores to camera shops throughout the San Gabriel Valley.

Sims Recycling receives certifications

Sims Recycling Solutions announced that all of their electronics recycling facilities in California have received OHSAS 18001:2007 certification and ISO 14001:2004 certification from Bureau Veritas. These certifications require adherence

to specified requirements of environmental, health and safety management.

OHSAS 18001 is an international standard while ISO 14001 certification demonstrates the establishment of a systematic approach to environmental risks.

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ELECTRONICS

Connecticut selects Eco International as covered recycler

Eco International has received approval from the State of Connecticut's Department of Environmental Protection to serve as a "covered electronic recycler" under the state's Electronics Recycling Law and as part of the Connecticut Statewide Electronics Recycling Program.

Eco International, an ISO 14001:2004 Certified Recycler, will offer its electronic recycling services to benefit manufacturers, municipalities and individual households throughout the state of Connecticut. Only approved 'Covered Electronic Recyclers' are authorized to bill manufacturers of covered electronic devices (CEDs) generated by Connecticut households.

Under the Connecticut law, manufacturers of computers, computer monitors, printers, and televisions, must participate in a state-wide electronics recycling program established by the Connecticut Department of Environmental Protection to implement and finance the collection, transportation, and recycling of such items from Connecticut households.

Sign behind a horse and carriage: "Energy efficient vehicle. Runs on grass and oats. CAUTION: Avoid exhaust!"

WM NYeCycles Service aids recyclers

WM Recycle America, a subsidiary of Waste Management, Inc., announced the kickoff of the WM NYeCycles Service, which allows electronics manufacturers in New York State to comply with the NYS Electronic Equipment Recycling and Reuse Act.

Effective April 01, 2011, the act requires manufacturers of certain electronic equipment to establish convenient systems for the collection, handling, and recycling or reuse of electronic waste. WM NYeCycles Service offers 148 permanent eCycling locations, more than any other service in the state of New York. By joining the WM NYeCycles Service, manufacturers ensure they comply with all requirements set forth by the act, and guarantee all materials will be handled and recycled in the most environmentally responsible way.

Personal electronics (such as computers, cell phones, televisions, gaming

systems and printers) make up a large part of the waste stream. According to the Consumer Electronics Association (CEA), Americans own approximately 24 electronic products per household. Furthermore, EPA reports of the 2.25 million tons of TVs, cell phones and computer products ready for end-of-life (EOL) management, 18 percent (414,000 tons) was collected for recycling and 82 percent (1.84 million tons) was disposed of, primarily in landfills. The new WM NYeCycles Service delivers an environmentally responsible option for industrial, commercial and residential customers affected by the Act to divert e-waste from landfills and into recycling facilities.

By recycling old electronic products, useful materials such as glass, plastic and metal can be re-used in the manufacture of other products. As a member of the WM NYeCycles Service,

manufacturers will employ an end of life electronics recycling solution that embodies the care, environmental standards, and service that customers have come to expect from the leader in recycling services. The WM NYeCycles Service offers various collection methods, which include an established network of collection sites, mail back programs and community electronics recycling events to help meet manufacturers' collection goals and requirements.

The processing of the collected electronic materials will be undertaken by Regional Computer Recycling and Recovery (RCRR) located in Victor, New York. WM Recycle America is a signature to the BAN (Basel Action Network) pledge and operates in accordance with Responsible Recycling (R2) Practices for Use in Accredited Certification Programs.

Yonkers launches fluorescent bulb recycling

Under the terms of an enforcement agreement with the United States Environmental Protection Agency (EPA), the City of Yonkers has initiated a program to recycle fluorescent light bulbs, as well as light ballasts and electronic waste, known as E-waste. Fluorescent bulbs contain mercury, which can be released if the bulbs are broken. By collecting and recycling these bulbs from city residents, Yonkers will be helping to reduce the release of mercury to the environment.

In 2008, EPA inspected various buildings belonging to Yonkers and requested documentation regarding the city's spent bulb recycling efforts. After the city did not adequately respond, EPA cited the city for violating the Resource Conservation and Recovery Act, the federal law governing the treatment, storage, and disposal of hazardous waste.

Agency regulations require that spent mercury and other toxic metal-containing bulbs from business, industry and govern-

ment be handled as hazardous waste, which means they must be disposed of in specially licensed facilities. As an alternative, they can be handled under simpler universal waste rules to encourage their recycling.

Under the terms of the settlement, Yonkers will begin collecting spent fluorescent bulbs, light ballasts and e-waste from Yonkers residents. The city will widely publicize the program.

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METALS

Paolo Rocca named 2011 AIST Steelmaker of the Year

Paolo Rocca, CEO of the Techint Group and chairman of its Tenaris and Ternium steel manufacturing operations, will be named "Steelmaker of the Year" at AISTech 2011 – The Iron & Steel Technology Conference and Exposition, managed by the Association for Iron & Steel Technology. The Steelmaker of the Year Award is presented annually by AIST to recog-



—Paolo Rocca

nize notable leaders for their contributions to the steel industry.

Rocca is being recognized for his dynamic and diverse leadership in the manufacturing of steel, most notably for the production of quality pipe and tube to support the world's energy infrastructure. His outstanding legacy, guided by the spirit and inspiration of his father Roberto and his grandfather Agostino, personifies global awareness of social and economic responsibility, and highlights the important role of education in creating lasting value for the communities where steel is made.

Appliance Recycling Centers reports 2010 operating results

Appliance Recycling Centers of America, Inc. reported operating results for the fiscal year and fourth quarter ended January 1, 2011.

Operating income for the year increased by more than 240 percent to \$3.1 million from an operating loss of \$2.2 million in the prior year. For the fourth quarter, operating income was \$0.3 million compared to a prior year operating loss of \$1.2 million. The increase in operating income for the fiscal year and quarter was driven primarily by improved gross margins, improving operational efficiencies and recognizing higher sales of byproduct materials.

Highlights of the fourth quarter and fiscal year included:

- Increased net income attributable to controlling interest by 122 percent to \$0.3 million compared to a loss of \$1.4 million in the fourth quarter of 2009.
- Signed 12 contracts in fiscal 2010 to provide recycling services.
- Re-signed a three-year contract with Southern California Public Power Authority to provide refrigerator replacement and retirement services.
- Entered into a new credit agreement on January 24, 2011 for a \$15 million senior secured revolving credit facility with PNC Bank, National Association.

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METALS

Steel imports decline 16 percent in February

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 1,777,000 net tons (NT) of steel in February, including 1,371,000 NT of finished steel (down 16 percent and 19 percent, respectively, from January final data).

Finished steel import market share in February was an estimated 18 percent and is 20 percent through 2 months of this year, a slight decline from the 21 percent for full year 2010.

In February 2011, compared to the month before, imports of reinforcing bars were up 63 percent; they are up 79 percent year-to-date. Other major prod-

ucts with significant year-to-date import increases vs. the same period last year include oil country goods (up 90 percent) and cut length plate (up 84 percent).

In February, the largest volumes of finished steel imports from offshore were from South Korea (183,000, down 15 percent), Japan (123,000 NT, down 5 percent), Turkey (70,000 up 96 percent), Germany (64,000 NT, down 34 percent) and Australia (53,000, down 29 percent). For the first 2 months of 2011, the largest offshore suppliers were South Korea (396,000, up 59 percent), Japan (252,000 NT, up 29 percent) and Germany (162,000 NT, up 150 percent).

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

	FEB 2011	JAN 2011	2011 Annual (est)	2010 Annual	% Change 2011 Annual vs. 2010
SOUTH KOREA	183	214	2,378	2,041	16.5%
JAPAN	123	129	1,513	1,325	14.2%
TURKEY	70	36	632	582	8.6%
GERMANY	64	98	972	879	10.5%
AUSTRALIA	53	74	763	519	47.0%
CHINA	48	59	641	858	-25.3%
TAIWAN	38	39	462	536	-13.9%
All Others	793	1,052	11,068	12,117	-8.7%
TOTAL	1,371	1,700	18,427	18,857	-2.3%

Metalico advances shredder plans within Buffalo

Metalico, Inc. has moved to the next phase of its strategy for growing the company's network-wide shredding capacity by escalating plans for new equipment in Buffalo, New York while suspending shredding activity in Youngstown, Ohio, as it upgrades that site.

In February, the company purchased a 44-acre parcel, including a 177,500 square foot building, in suburban Buffalo to house an 80" by 104" scrap metal shredder. After additional reviews of market opportunities, Metalico has determined to build a larger 96" x 104" shredder and to upgrade the facility's contemplated downstream nonferrous metals processing and recovery systems.

Separately, Metalico had been considering a potential relocation of its Division Street operations in Youngstown, Ohio and attendant facility

improvements for more than a year. The company has elected to remain at its existing location permanently but will proceed with plans to overhaul and upgrade the Division Street location and the Warren, Ohio buying site in anticipation of potential expansion of its business activities in the Youngstown-Warren, Ohio market and surrounding areas. Contemplated improvements include regrading, paving, fencing, landscaping and equipment upgrades.

As part of the Youngstown improvement plan, Metalico will shut down and dismantle its aging Youngstown shredder in early April. The Youngstown yard will continue to purchase shredder feedstock but will forward materials to Metalico's Neville Island shredder in Pittsburgh until such time as Youngstown may restart its own shredding capability. The changes in Metalico's flow of shreddable feedstock

should have only a minor impact on the company's suppliers.

The company does not expect a negative earnings impact from the shutdown of the shredder since it will eliminate certain operating costs and because most of the lost frag (shred) tons will be produced and replaced by the far more efficient Pittsburgh shredder. During the re-construction period, Metalico's Youngstown yard will continue buying, processing and selling other ferrous and nonferrous scrap metal products and will continue to serve its consumers as before.

The company will monitor and analyze market conditions to determine when and whether to build a new shredding plant in the Youngstown market.

Construction of the shredder is already under way, and work on the site on the border of the Town of Hamburg and Blasdell, New York has commenced. Items of equipment requiring long lead times have been ordered.

Metalico anticipates it will be shredding at the Buffalo site somewhere around October 1, 2011. The company plans to have 20,000 tons of feedstock on site when the shredder becomes operational.

When the well is dry, we know the worth of water.

—Ben Franklin




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$350.00	\$340.00	\$370.00	\$385.00	\$465.00
#1 Bundles	per gross ton	350.00	338.00	365.00	380.00	442.00
Plate and Structural	per gross ton	380.00	330.00	340.00	378.00	430.00
#1 & 2 Mixed Steel	per gross ton	369.00	370.00	339.00	375.00	398.00
Shredder Bundles (tin)	per gross ton	330.00	360.00	325.00	280.00	330.00
Crushed Auto Bodies	per gross ton	330.00	360.00	325.00	280.00	335.00
Steel Turnings	per pound	190.00	175.00	150.00	212.00	325.00
#1 Copper	per pound	3.71	3.50	3.95	3.84	3.92
#2 Copper	per pound	3.57	3.39	3.65	3.67	3.71
Aluminum Cans	per pound	.88	.76	.85	.87	.97
Auto Radiators	per pound	2.21	2.11	2.15	2.07	2.25
Aluminum Core Radiators	per pound	.75	.59	.72	.76	.80
Heater Cores	per pound	1.30	1.49	1.90	1.93	2.00
Stainless Steel	per pound	1.04	.85	.99	.98	1.06

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

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

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AUTOMOTIVE

EPA streamlines regulations for car and truck fuel conversion systems

The United States Environmental Protection Agency (EPA) has updated rules making it easier for manufacturers to sell fuel conversion systems. The conversion systems allow vehicles to run on alternative fuels, which may appeal to consumers concerned about energy security, fuel costs, or emissions.

These changes reflect the EPA's interest in encouraging innovation and spurring conversions that optimize clean

air and clean energy technologies. It is also in keeping with the president's January 18, 2011 executive order, which directs agencies to identify and consider regulatory approaches that reduce burdens and maintain flexibility and freedom of choice for the public.

The revised procedures will vary based on the age of the vehicle or engine being converted. EPA has found that the procedures for older vehicles and

engines can be streamlined while maintaining environmental safeguards. As opposed to a one-size fits all approach, EPA's process is now based on whether a vehicle or engine is new, intermediate age, or outside its expected useful life.

Conversion systems alter an existing vehicle or engine to enable it to run on a different type of fuel. An example of this type of conversion includes switching a car designed for gasoline to run on compressed natural gas. While properly engineered conversion systems can reduce or at least not increase emissions, poorly designed systems can lead to much more pollution.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

What are your customers saying about you online?

Whenever I think of the importance of the internet to small businesses, I think of a USA Today article I read in November 2009 about start-up airlines.

Kent Craford and his partners started SeaPort Airlines in June 2008. Since the aircraft are small, passengers don't have to pass through TSA checkpoints.

Instead of going through security at Portland's PDX and landing at SeaTac, a one-half hour to 45 minute drive south of Seattle, SeaPort's 9-seater aircraft uses a private air field at PDX and lands at Boeing Field, 6 minutes from downtown Seattle.

Yes, it was a good idea, but let's face it: USA Today reported that for every company like SeaPort, there are 10 others that fail. Fuel prices, high labor costs and the whim of travelers affect all fledgling airlines.

SeaPort, however, is another story. What began as one round trip a day turned into several air services between Eastern Oregon and the Oregon coast to Portland, and Memphis to four small towns in Arkansas. Rob McKinney, CEO and president, said the company's commitment to exceptional customer service and internet know-how has boosted the airline to annual sales of \$25 million.

It took a while, but eventually the company added e-ticketing, and passengers were able to use online sites such as Expedia and Travelocity to book tickets. SeaPort has built a reputation of providing personal customer service, sometimes holding a flight if a customer is running late. Online reviews left on internet travel sites are monitored closely.

"Service comes first," McKinney said. "SeaPort focuses on the fact that we are a service that just happens to be an airline. We understand that giving our guests an exceptional experience is what will bring them back as loyal customers."

Every traveler who has had a problem with SeaPort was been personally attended to. Every business's Google image is so important, McKinney said, most businesses are aware of it – or they should be – so that they can make sure their company's online image is as good as possible.

McKinney also believes in planning a public relations campaign in advance and sticking to it. While some businesses may be able to plan as far as a year in advance, there are so many fluctuations in the airline industry, he plans a 90-day advance schedule that takes up half his time, and spends the other half dealing with the unexpected.

Earthbound businesses can follow up an online sale with an e-mail request for a review.

Comment cards directing customers to a feedback site can be handed out with checks.

Some businesses offer a chance for a prize on the receipt for people who visit a website to leave feedback. Facebook's "like" buttons are free to online businesses and provide free advertising on a customer's news feed and wall.

For those reasons and more, a business's website is an important tool. Its money well spent in today's internet environment.

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.

RUBBER

Waukegan Tire and Passchal team up in a fashionable way



Waukegan Tire now carries the ultimate Dad's Baby Bag – made from recycled tractor and tire inner tubes by Passchal.

Passchal is a Virginal based company that specializes in making high end fashion bags and accessories out of tons of discarded truck and tractor inner tubes, using an environmentally friendly, seven-step process.

They recently embarked on a new teaming partnership to further their commitment to green living with Waukegan Tire.

Waukegan Tire is committed to recycling in their offices and shops. This is reflected through recycling of tires, wheel weights, plastics, batteries, steel and aluminum, cardboard, oil and antifreeze.

They've now added the Passchal tractor and tire inner tube handbag collection to the items available with their tires in the showroom.

Passchal is a Richmond, Virginia based company. All products are made from recycled truck and tractor tire inner tubes and feature a unique lighting system that illuminates the interior.

A doctor said to his patient, "I have bad news and worse news."

"Oh, no! What's the bad news?" asked the patient.

The doctor replied, "You only have 24 hours to live."

"That's terrible," said the patient. "How can the news possibly get worse?"

The doctor replied, "I've been trying to call you since yesterday."

For a direct link to more information, view this article on www.AmericanRecycler.com.

Verizon utilizes new vehicles

Verizon showcased some of the energy-efficient additions to its motor vehicle fleet in April.

Verizon displayed a hybrid Chevrolet pick-up, an all-electric Chevrolet Volt and a first-of-its-kind hybrid aerial-splicing vehicle. Over the past few years, the company has added hundreds of hybrid Toyota Priuses, as well as more than 500 compressed natural gas vans and 700 hybrid pickups.

Verizon is the first communications company to engineer and deploy a hybrid fiber splicing unit. Because of their weight, these vehicles (commonly known as bucket trucks) traditionally consume significant amounts of fuel. To reduce fuel consumption, the company incorporated a hybrid engine and innovative, onboard batteries that assist in the vehicles' acceleration, and power the bucket lift and lighting units.

The company will also add several new all-electric Chevrolet Volts to its fleet in 2011. Verizon now has nearly 2,000 alternative-fuel vehicles in its fleet, and plans to have up to 15 percent of it operating with alternative fuels by 2015.

NEW! A cost-effective way to process ACSR cable!

The model SEP5 shears separates and shears the aluminum or copper outer layer, yet leaves the steel center core in full length. Process single or multi-layer ACSR cable safely and efficiently!



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up to 600mcm

RUBBER

Campaign encourages fleets to use retreads

Bridgestone Bandag Tire Solutions (BBTS), a division of Bridgestone Americas Tire Operations, launched a new marketing campaign designed to promote retreading. At the heart of the campaign is an appeal to fleets to consider extending their casing age limits when retreading.

Mike Bice, tire program manager for Crete Carrier Corporation, has extended his casing life from five to seven years. "We've been tweaking our tire program for about five years, trying to find a casing age limit that provided the best return on investment for our fleet. We spent a lot of time diagnosing our scrap pile. From the data we gathered, we determined that our casing age limit should be seven years," he said.

By adding those two years to his fleet's specs, he has been able to realize one to two additional retreads per casing and has lowered his overall operating costs. The fleet has more than 172,000 wheel positions and uses Bandag brand retreads.

Chris Ripani, director of marketing strategic brands and channels, says tightness in the market supply for new

replacement tires in 2011 has made retreading more attractive for all types of fleets. "Fleets who now retread are extending their age limits to realize the most value from the casings they own," he said. "We've also seen fleets return to retreading, or perhaps evaluate retreads for the very first time, as a strategy to maximize their tire programs and keep their trucks rolling."

In some cases a closer look at repair specifications may be in order. BBTS has conducted studies of more than 13 million tires rejected for retreading and determined that 30 percent of those commercial truck tire casings could have been retreaded at least one more time if the repair specs had been different.

BBTS has launched a new web site, www.retreadinstead.com, to provide fleet managers with tools and information to get the most out of retreading. The site includes a Wheel Position Analyzer tool, a cost-analysis example for considering extending current casing age limits, and an informational video on Shearography, a modern casing inspection technology that ensures retread reliability.

Curb ramps utilize recycled tires

Bridjit, Inc. demonstrates its commitment to the environment by the way it makes its product is made. Bridjit manufactures the Bridjit Curb Ramp driveway entry replacement solution by utilizing crumb rubber sourced from recycled tires. It is estimated that there are at least 275 million scrap tires stockpiled in the United States.

"Each Bridjit rubber curb ramp set represents 12 passenger tires that were recycled," says Bridjit president John Curry.

A tire recycling operation takes scrap tires and reduces them in size to a small chip. The small chip is reduced further by removing the fiber and wire. It is then ground into a fine powder known as crumb rubber. The same material used to make Bridjit Curb Ramps is utilized as flooring material for school playgrounds and for manufacturing fitness mats.

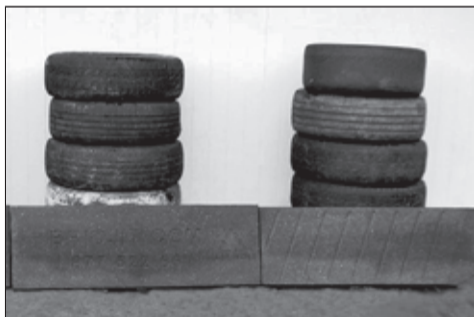
Bridjit Curb Ramps are a high-quality green solution that helps reduce the jarring and underside vehicle damage that occurs from a roll-over curb driveway entry. Bridjit helps reduce bad backs, bent rims and damaged tires. It's ideal for cars, trucks, SUVs, boats, golf carts, RVs or any type of vehicle.

"If you had a quarter," quizzed the teacher, "and you asked your father for another dollar and fifty cents, how much money would you have?"

"One quarter," answered the little boy.

"You don't know your arithmetic," said the teacher, shaking her head.

The boy shook his head too, "You don't know my father."



Events Calendar

May 1st-4th

Federation of New York Solid Waste Associations Solid Waste/Recycling Conference & Trade Show. The Sagamore, Bolton Landing, New York.
845-256-3141 • www.nyfederation.org

May 9th-12th

WasteExpo. Dallas Convention Center, Dallas, Texas.
800-927-5007 • www.wasteexpo.com

June 6th-7th

Northeast Recycling Conference and Expo. Radisson, Manchester, New Hampshire.
800-223-0150 • www.nrra.net

June 21st-24th

Air & Waste Management's 104th Annual Conference and Exhibition. Disney's Coronado Springs Resort, Orlando, Florida.
412-904-6003 • www.awma.org

August 23rd-25th

WASTECON 2011. Gaylord Opryland, Nashville, Tennessee.
240-494-2237 • www.wastecon.org

INTERNATIONAL

Canadian Mattress Recycling helps recycle over 200,000 lbs.

New recycling initiatives are being heard by businesses and residents in the Metro Vancouver Area. Canadian Mattress Recycling was forced to rush the opening of their Metro Vancouver operation to January 2011 in order to handle the increased capacity of mattresses that were being diverted from the landfill.

Until this year, the majority of mattresses from Canada's 3rd largest census population were being dumped in landfills. In an effort to extend the life of the local landfills, Metro Vancouver finally recognized that all of the materials in mattresses were recyclable and passed a bylaw prohibiting mattresses from the landfills as of January 1, 2011.

Terryl Plotnikoff, general manager, said they have discovered another unexpected demand: residential customers. "Because of the \$20 charges at the landfills and transfer stations, we've seen hundreds of residents wanting to bring

their old mattresses and box springs directly to us and save money."

Canadian Mattress Recycling has fielded many calls from residents wanting a pickup service. "But most of them can't afford to hire a junk removal company. So we've decided to help those residential customers that are not able to deliver their mattresses to us. The demand has been so great that we are now starting weekly residential pick-up programs in Vancouver/Burnaby/Richmond, Surrey/Delta/Langley, the North Shore, and the Tri-Cities area."

Ultimately, the goal of Canadian Mattress Recycling is to help eliminate all mattresses and box-springs from going into a landfill in Canada. They also know that, with their pick-up service, they will be helping the municipalities and taxpayers by reducing the number of dumped mattresses.

Mechel launches coking battery facility

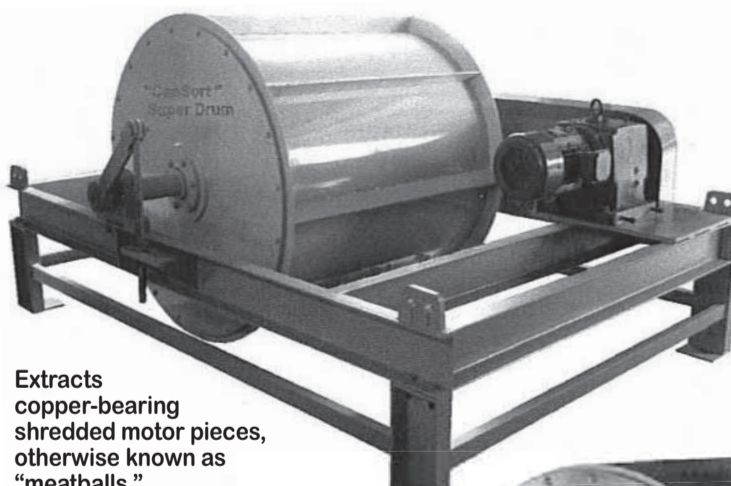
Mechel OAO, a Russian mining and steel company, announced the launch of the reconstructed coking battery #6 facility at Mechel Mining OAO's subsidiary, Mechel-Coke OOO.

The launch will enable the company to step up production of coke and chemical products, as well as provide an independent supply for Mechel's Chelyabinsk Metallurgical Plant OAO and Southern Urals Nickel Plant OAO.

Due to the reconstruction, the battery nearly tripled its capacity to 470,000 tons of coke annually.

Special attention was paid to environmental protection measures, which include an autonomous system for dustless discharge of coke with dry cleaning, a smokeless furnace loading system and pneumatic seals on ascension-pipe lids. This will enable the plant to significantly improve ecological safety.

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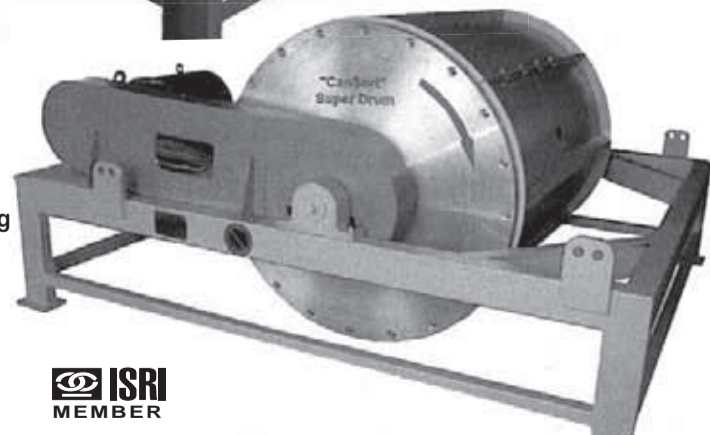
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BUSINESS BRIEFS

Industry loses Sennebogen leader and innovator

■ Erich Sennebogen Sr., the driving force behind Sennebogen Maschinenfabrik since 1952 has died at the age of 79 after losing a battle with cancer on March 21, 2011.

Starting in 1952 at the age of 21, with 13 employees, Sennebogen began building agricultural utility equipment and today, for the last 10 years under the direction of his sons Erich and Walter, this global organization with over 1,000 employees designs and builds hydraulic material handling equipment, rope excavators, cranes, carrier equipment and steel components. It has established manufacturing facilities in Germany and Hungary along with offices and warehousing operations in the United States, Russia, Singapore and Dubai.

Erich Sennebogen is remembered as an entrepreneur with a "no such thing as 'can't'" attitude that now empowers their design and engineering teams as well as their distribution and service partners in over 70 countries.

Always an inspiration to all who knew him, Sennebogen had recently received many honors including the Order of Merit of the Republic of Germany, First Class; the Bavarian Order of Merit; the Gold Citizen's Medal from his hometown of Straubing; Businessman of the Year – Balantofured, Hungary; and the Lion's Club Gold Medal of Merit.

Apple Valley Waste chooses Decker as CEO

■ Apple Valley Waste in West Virginia and Maryland, announced that John Decker is now managing partner and chief executive officer.

Decker is a 20-year waste industry veteran who has held leadership positions with both public and private solid waste companies. Most recently, Decker was the vice president of operations for Casella Waste. As the managing partner of Apple Valley, Decker will work alongside James Phillips, one of the founding partners, who will continue as general manager of Apple Valley Waste.

Environmental justice board adds Waffenschmidt

■ Covanta Energy Corporation announced that John G. Waffenschmidt, vice president of environmental science and community affairs, has been appointed to the Pennsylvania Environmental Justice Advisory Board (EJAB) by Pennsylvania Department of Environmental Protection acting secretary Michael L. Krancer.

The EJAB is charged with protecting the environmental health of communities, especially those communities with the greatest concentration of environmental risks, by overseeing the implementation of the Pennsylvania Department of Environmental Protection's (PADEP) Environmental Justice policy. The Board will review and advise PADEP management on existing and proposed regulations and policies concerning the environment and lead the way on issues relating to Environmental Justice.

Waffenschmidt was a member of the original workgroup that helped establish the EJAB. At various points in his career he has worked as a regulator, served as a member of local government, worked as a project developer and been a preparer of applications for new solid waste facilities.

Harris receives ISO 9001:2008 certification

■ Harris Waste Management Group, Inc. has implemented and maintains a quality management system for locations in Cordele, Baxley and Tyrone, Georgia. This scope entails the design and manufacturing of scrap recycling material equipment; including sales and engineering.

Harris has met a milestone achievement in becoming certified by ISO 9001:2008 Management System. The certification of compliance with ISO 9001:2008 recognizes that the policies, practices and procedures of Harris ensure consistent quality in the products and services Harris provides to their customers.

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BUSINESS BRIEFS

City Carton names new human resource director

■ Jennifer Humphrey, North Liberty, Iowa, has been promoted to human resource director of City Carton Recycling.

Humphrey began her career with City Carton Recycling in March 2007 as a human resource assistant. She was then promoted to human resource generalist in December 2008.

Humphrey develops, implements and coordinates policies and programs covering the organization's employment administration, wage and salary administration, training, safety and health benefits, employee communication and services.

Hullet appointed store manager for Atlas Copco

■ Ed J. Hullet, Sr. has been appointed to the position of store manager at Atlas Copco's company store in Baltimore, Maryland. In his new role, Hullet will report directly to Dave Pietrzykowski, vice president, store channel operations.

Since 2003, Hullet has been the general manager of Valley Supply and Equipment Co., Inc./Bobcat Mid-Atlantic, a multi-location construction equipment distributor.

Stephen Kennedy joins Mascoma Corporation

■ Mascoma Corporation announced the appointment of Stephen Kennedy as the new executive vice president of research and development and member of the executive leadership team. With thirty years of experience leading operations management, process research and development, and biologics manufacturing, Kennedy is well established to lead Mascoma's research and development team and guide the company's R&D efforts as they transition into commercial operations.

Prior to Mascoma, Kennedy served as interim executive director of the Novartis/MIT Center for Continuous Manufacturing at MIT. He spent 18 years at Genzyme, most recently serving as senior vice president of technical operations and technology leadership, a role in which he focused R&D, process development, manufacturing technical support and analytical technology groups on process technology improvement and optimization. For many years, he was deeply involved in Genzyme's biologics operations, working in Belgium and France.

Kennedy also spent time at Genencor in Finland and at Eastman Kodak, in Rochester, New York.

Round2 Inc. executive joins recycling board

■ Round2 Inc., an eRecycling service provider, announced that its vice president of corporate development, Paul Adamson, has joined the State of Texas Alliance for Recycling (STAR) board of directors. STAR and its board of directors strive to foster communication and the exchange of information regarding recycling among professionals, organizations, governmental entities, and individuals; by complementing and coordinating recycling industry initiatives; and by acting as a clearinghouse of recycling resources.

The State of Texas Alliance for Recycling (STAR) is the largest non-profit, membership recycling advocacy group in the state. The STAR membership is comprised from diverse sectors, including large and small businesses across the recycling spectrum, local governments and municipalities, college and universities, nonprofits, and concerned citizens.

US Shredder hires recycling equipment veteran

■ The US Shredder and Castings Group has hired recycling equipment veteran Ron Morgan as a project manager.

In his new role, Morgan will not only be involved in sales but also assist the company in project management and systems design. The new office will be located in Winchester, Kentucky.

Morgan has spent over 25 years in sales, application engineering and project management for Dover Conveyor, and IPS Balers.

NEW PRODUCT SHOWCASE



HEIL DURAPACK 4060 LOADER MEANS FEWER ROUTE TRUCKS

Heil's new DuraPack 4060 split-body rear loader is the ideal vehicle for customers manually collecting multiple commodities on a single route. It has the compaction power to handle bulky ferrous waste like used appliances and sheet metal scraps and the sealing ability to handle wet waste like organics or food scraps.

Heil's DuraPack 4060 features the smooth curved sides and fully welded, interlaced subframe that have become the benchmark of durability and longevity. It comes standard with fully-sealed electrical controls for operating both tailgates from either side.

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HENDRICKSON'S HT 250YS SUSPENSION TRIMS 80 POUNDS

Hendrickson's commitment to innovation continues with the release of the HT250YS trailer suspension, which is 80 pounds lighter than its counterpart, the road-proven HT 250 Y-beam suspension developed exclusively for lowboy applications.

The streamlined design of the HT 250YS allows for an easy replacement for current Y-beam suspensions.

HT 250YS incorporates all of the benefits of the HT Product family, including the standard QUIK-ALIGN pivot connection with patented tri-functional bushings, which delivers fast, easy and accurate axle alignment for mile after mile of worry-free service.

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www.hendrickson-intl.com



MORBARK INTRODUCES 3800XL HORIZONTAL GRINDER

Morbark released its new 3800XL Horizontal Grinder to the market. This new grinder has many improvements in feeding technology which dramatically increases production capacity and operating efficiency. The difference between this unit and others is its redesigned reverse-pivot feed system which minimizes space between the feed wheel and the hammermill. There is no place for material to hide in this unit, which keeps debris moving forward with uninterrupted, steady production.

The Morbark 3800XL is available with a variety of engine choices up to 800 HP.

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TITAN'S 44-YARD SCRAPER SYSTEM HAS STRENGTH, SPEED

Titan Earthmoving Equipment has introduced a new high-capacity scraper system that integrates a 44 cu. yd. bowl with a Bell 4206D scraper tractor.

The scraper bowl lists a struck capacity of 30 cu. yd. and for heaped loads up to 44 cu. yd. The 4 piece cutting edge scrapes a 12' swath up to 13" deep, loading through an apron opening of up to 89".

The power unit is a 422 HP Bell 4206D scraper tractor driven by a 12-liter Mercedes Benz diesel engine and Allison 6-speed automatic transmission.

Titan Earthmoving Equip.
1129 Highway #3
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519-688-4826
www.bultequipment.com



WINKLE'S OPTIMAG G-SERIES MAGNETS OFFER MORE CHOICES

Winkle's new OptiMag G-Series grapple magnets offer increased lifting capacity with less weight. Winkle reduced costs in the new line-up of G-Series magnets through improved manufacturing.

Winkle's G-Series magnets are designed for mag-grab applications, where the scrap magnet is permanently fitted into the top of the grapple. Winkle fabricates the magnet to order with the required fitting to suit any make or model of grapple.

The deep-field magnets allow grapple operators to handle scrap and to sweep the work area without changing attachments.

Winkle Industries
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Alliance, OH 44601
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www.winkleindustries.com

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B5	Republic Machine
A12	RM Johnson
A14	Sierra
A14	SSI Shredding Systems, Inc.
A18	Supershear

BUSINESS BRIEFS

Maqro new Sennebogen distributor in Mexico

■ Sennebogen LLC, recently announced the appointment of Maqro, SA de CV as the newest member of the Sennebogen distribution network in the Americas.

Maqro has been a leading equipment distributor in the north of Mexico since 1979. The firm is best known as the regional dealer for John Deere construction and forestry equipment. Its branch network also represents a wide range of crushing and screening, paving and concrete equipment and attachments including top brands such as Bomag, Terex/Finlay, LeeBoy and NPK.

While Maqro intends to keep its own stock of Sennebogen machines for sales and demonstration, its first unit is already out on rental.

Vendum Batteries Appoints Prabhakar Bandaru

■ Vendum Batteries announced the appointment of Professor Prabhakar Bandaru as a non-executive member of the advisory board.

Professor Bandaru joins the Vendum team as a highly respected member of the Department of Mechanical and Aerospace Engineering at the University of California San Diego. His research and development role will involve advising the board on technical design and overseeing the production of prototype technology, as well as consulting with investors.

SWACO hires Sarah Lynn as assistant chief counsel

■ Columbus attorney Sarah E. Lynn has joined SWACO as assistant chief counsel.

The eastside Columbus resident brings a wealth of government, environmental, and private legal experience to the position. Most recently, Lynn was deputy chief counsel for the office of the Ohio attorney general. She has also served as an assistant Ohio attorney general in the environmental enforcement section where she was designated a special assistant United States attorney to handle criminal prosecutions under the Federal Clean Water Act. Lynn spent over a decade working in the Environmental Practice Group of the Columbus law firm of Bailey Cavalieri, LLC and served as a commissioner on the environmental review appeals commission of Ohio.

Lynn is active in the community serving on the Environmental Law and Real Estate Committees of the Ohio State Bar Association as well as the Columbus Bar Association. She is also a member of the Women's Board of the Franklin Park Conservatory and serves on the Board of Trustees of the education and advocacy non-profit; Early Care and Learning.

David Sutherland-Yoest resigns from IESI-BFC

■ IESI-BFC Ltd. announced that David Sutherland-Yoest resigned as a director and executive vice-president and chief development officer of the company.

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CRYSTAL AUTO PARTS: family-owned business, located in Dearborn, Michigan since 1956; holds only recycling license in city, facility on approximately 5.5 acres; well-established wholesale/retail truck parts business and scrap processing operation. Easy access to I-75 and I-94. Owner can remain on staff to assist with transition, \$750,000. Call 800-336-3348.

C&D INTERNAL RAIL TRANSFER STATION: 4.2 acres located in Westchester County, NY. Approved special use permit for 54,000 sq. ft. building. 1,500 tons per day C&D transfer. Two 2,000' spurs of rail with one inside building. D.E.C. application pending. Approved rail design with Metro North. Call 914-906-7161.

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- 2008 M325D LMH** (Rubber) 51' Reach, Hyd Cab, 20KW Gen, Grapple \$325,000
- 2008 M325D LMH** (Rubber) 51' Reach, Hyd Cab, 20KW Gen, Grapple \$315,000
- 2007 M325D LMH** (Rubber) 51' Reach, Hyd Cab, 20KW Gen, Grapple \$299,000
- 2006 M325C LMH** (Rubber) 51' Reach, Hyd Cab, 20KW Gen, Grapple \$279,000
- 2005 M325C LMH** (Rubber) 51' Reach, Hyd Cab, 20KW Gen, Grapple \$249,000
- 2005 M325C LMH** (Rubber) 51' Reach, Hyd Cab, 20KW Gen, Grapple \$229,000
- 2006 M325D MH** (Rubber) 47' Reach, Hyd Cab, 20KW Gen, Grapple \$274,000
- 2005 M325C MH** (Rubber) 47' Reach, Hyd Cab, 15KW Gen, Grapple \$239,000
- 2005 M325C MH** (Rubber) 47' Reach, Hyd Cab, 15KW Gen, Grapple \$229,000
- 2007 M345C UHR** (Crawler) 80' Ultra High Reach, Tilt Cab, Grapple, POR

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- 1997 A902** (Rubber) 38' Reach, 4' Elev Cab, 9.5KW Gen, Grapple \$119,000
- 2008 A904** (Rubber) 38' Reach, Hyd Cab, 12.5KW Gen, Grapple \$229,000
- 1999 A924** (Rubber) 42' Reach, Hyd Cab, 13KW Gen, Grapple \$139,000
- 2002 A924B** (Rubber) 42' Reach, Hyd Cab, 15KW Gen, Grapple \$159,000
- 2005 A934B HD** (Rubber) 48' Reach, Hyd Cab, 20KW Gen, Grapple \$219,000
- 2006 A934C** (Rubber) 52' Reach, Hyd Cab, 17.5KW Gen, Grapple \$229,000
- 2006 A934B** (Rubber) 52' Reach, Hyd Cab, 17.5KW Gen, Grapple \$229,000
- 1998 A954** (Rubber) 60' Reach, Hyd Cab, 33KW Gen, Grapple \$325,000
- 2004 R924B HDSL** (Crawler) 40' Reach, Hyd Cab, 15KW Gen, Grapple \$179,500
- 2005 R934B EW** (Crawler) 48' Reach, 4' Elev Cab, Gen, Grapple \$179,000
- 2001 R934 EW** (Crawler) 52' Reach, Hyd Cab, 15KW Gen, Grapple \$159,000
- 2000 R934 EW** (Crawler) 45' Reach, 48" Elev Cab, Gen, Grapple \$89,000

SENNEBOGEN

- 2008 835R** (Rubber) Hyd Cab, 15KW Gen, Grapple \$249,500
- 2002 835R** (Crawler) Hyd Cab, 20KW Gen, Grapple \$199,000
- 2006 850R** (Crawler) Hyd Cab, 20KW Gen, Grapple \$299,000

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- 2006 MHL350D (rubber), 52' reach, A/C hydraulic cab, gen-set and grapple.
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- 2003 & 2006 MHL331 (rubber), 34' reach, hydraulic cab, gen-set and grapple.
- 2001 MHL360 REBUILT (rubber), 59' reach, hydraulic cab, gen-set and grapple.
- 2003 & 2007 MHL 340 (rubber), 41' reach, hydraulic cab, gen-set and grapple.
- 2001 MHL320 (rubber), 31' reach, hydraulic cab, gen-set and new 48" magnet.
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- 2004 R954EW (crawler), 59' reach, hydraulic cab, gen-set and grapple.
- 1999 R934EW REBUILT (crawler), 50' reach, 4' cab riser, gen-set and grapple.
- 1999 A924 (rubber), 41' reach, hydraulic cab, gen-set and grapple.
- 1994 A932 REBUILT (rubber), hydraulic cab, gen-set and grapple.

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- 2007 & 2008 825D (rubber), 43' reach, hydraulic cab, gen-set and grapple.
- 2005 835R (crawler) 52' reach, hydraulic cab, gen-set and grapple.
- 2005 821M (rubber), 36' reach, hydraulic cab, gen-set and grapple.
- 2005 835M REBUILT (rubber), 55' reach, hydraulic cab, gen-set and grapple.
- 2004 825M REBUILT (rubber), 43' reach, hydraulic cab, gen-set and grapple.
- 2000 830M REBUILT (rubber), 50' reach, hydraulic cab, gen-set and grapple.

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- 2006 Komatsu PW220 (RUBBER), 41' reach, hydraulic cab, rotating shear and gen-set.
- 1996 KOMATSU PC240 REBUILT (crawler), 38' reach, 3' cab riser, gen-set and grapple.
- 2003 NEW HOLLAND MH (rubber), 40' reach, cab riser, gen-set and grapple.
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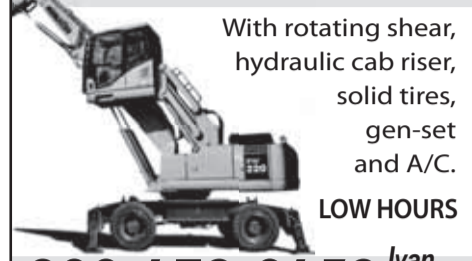
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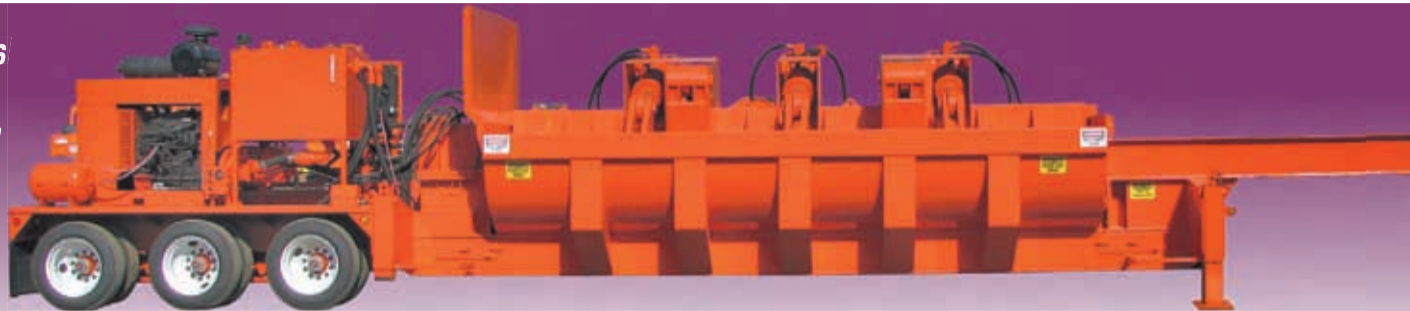
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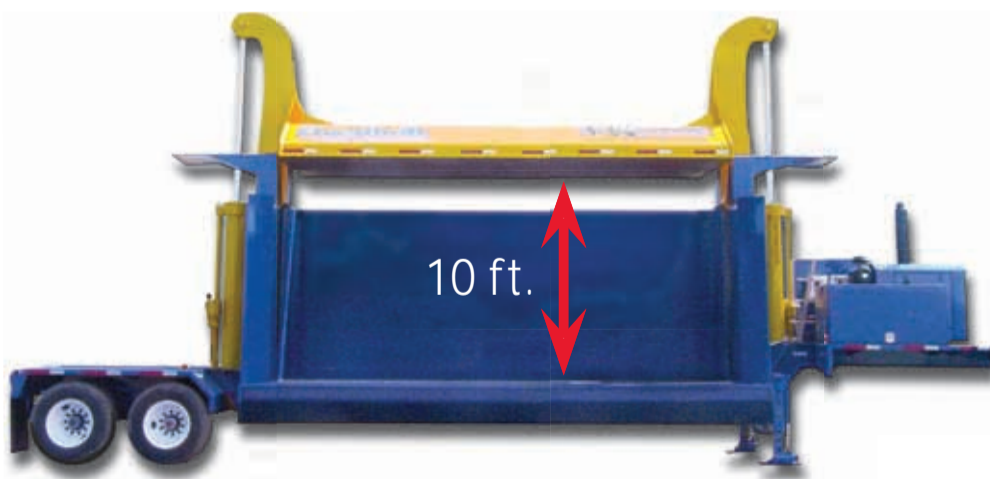
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Metals benefit from addition of toxic waste

Researchers at the Polytechnic Institute of New York University (NYU-Poly) have demonstrated the potential to keep millions of tons of toxic waste out of landfills while improving the performance and lowering the cost of some of manufacturing industries' most expensive raw materials such as aluminum and magnesium.

Nikhil Gupta, associate professor of mechanical and aerospace engineering at NYU-Poly's Composites Materials and Mechanics Laboratory, has reported the results of experiments designed to utilize fly ash – a toxic by-product of coal combustion – as an additive to create lightweight composite metal foams that can replace solid aluminum and magnesium in some automotive and consumer product applications.

Gupta and collaborators from the University of Wisconsin-Milwaukee published their findings in a recent issue of *Journal of Metals (JOM)*, a publication of The Minerals, Metals & Materials Society.

More than 70 million tons of fly ash are produced by coal power plants in the United States every year, and more than half that amount is dumped in landfills. Fly ash contains hollow particles that, when added to a molten metal such as aluminum, create a porous metal foam that is lighter than solid metal yet absorbs a higher amount of energy under compression. The team tested aluminum and magnesium alloys filled with fly ash

See FLY ASH WASTE, Page 6

Waste in the walls: Cellulose insulation keeps paper out of landfills

by MIKE BRESLIN

mbreslin@americanrecycler.com

The United States Environmental Protection Agency (EPA) estimated that Americans generated a total of 243 million tons of municipal solid waste (MSW) during 2009, the lion share of which was paper and paperboard at a whopping 28.2 percent. For comparison, the next largest category, food scraps, comprised only 14.1 percent of the total.

Food decomposes quickly, but buried paper, sheltered from rain and air, is highly resistant to deterioration when compacted in a landfill. Garbage archeologists have actually excavated perfectly readable newspapers that are more than 50 years old.

In 2009, 68.4 million tons of MSW paper and paperboard were generated and 42.5 million tons recovered, leaving 25.9 million tons going to landfills – a huge waste of an otherwise valuable commodity.

While recycling paper generally entails the consumption of chemicals and the production of emissions, there is one notable exception: recycled cellulose insulation. Newspapers and other paper sources are promptly ground up, treated with chemicals and go on to long and useful lives keeping homes warmer in winter and cooler in summer. It is potentially one of the greenest recycling routes, and an ideal strategy for conserving ever more costly landfill space.

According to the Cellulose Industry Manufacturers Association (CIMA), if all the paper currently being put into land-



Most cellulose insulations are loose-fill types that are blown into walls and attics under pressure. Unlike the cellulose insulation of yore, new iterations can be made both insect and fire retardant.

fills each year were converted to cellulose insulation, it would save approximately eight million tons of CO₂ emissions – the equivalent of taking every car off the road in New Mexico and Nevada.

"All building products, including cellulose insulation, have suffered severely over the past several years due to the recession and the drop in new construction, but cellulose insulation has fared somewhat better than other materials due to increased use in retrofits," said Daniel Lea, executive director of CIMA. "Since money is tight and energy costs keep rising, cellulose insulation is viewed as one of the quickest, easiest, most cost effective ways a home can

immediately reduce heating and cooling bills."

As a top executive at an electric utility recently said, "A megawatt conserved prevents a megawatt of new generation having to be built." Over the past decade, the truth of this statement has driven utility regulators to encourage, often mandate, private, public and cooperative utilities to institute a vast array of energy conservation programs.

Federal, state, county and municipal programs have emerged throughout the country to promote conservation through incentive and rebate offerings to reduce energy consumption, including free

See INSULATION, Page 7

Walmart reduces amount of landfilled waste in California

Walmart reported that it has eliminated more than 80 percent of the waste that would go to landfills from its operations in California. The company's comprehensive waste reduction program that produced these results is now being implemented across Walmart's 4,400 stores, Sam's Club locations and distribution centers in the United States, moving it closer to its global goal of creating zero waste.

Achieving a similar 80 percent reduction in its landfill waste across the country would help Walmart prevent more than 11.8 million metric tons of carbon dioxide emissions annually. This is equal to taking more than 2 million cars off the road for a year.

Beginning in 2009, Walmart created a nationwide infrastructure of landfill alternatives that could open new opportunities for municipalities and

other businesses to reduce the amount of solid waste they send to landfills. The Walmart zero waste program has three main components:

- Recycling cardboard, paper, aluminum, plastic bags and roughly 30 other items through the super sandwich bale (SSB) program. Items not eligible for the SSB, including wood pallets, polystyrene plastic and apparel, are sent to Walmart's return centers for reuse or recycling.

- Donating healthy, nutritious food to food banks around the country. In 2010, Walmart donated 256 million pounds of food to hunger relief organizations – the equivalent of 197 million meals.

- Creating animal feed, energy or compost from expired food and other organic products following the EPA's food waste hierarchy.

Walmart began implementing and consistently tracking its new and exist-

See WALMART, Page 3

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A Letter from the Editor

Readers,

The crisis in Japan has continued unabated in the month since we last met. The country continues to be plagued by temblors, the military has been called in to search for those missing since the tsunami, and the nuclear disaster at Fukushima has been elevated to Chernobyl-esque levels.

Amidst the hardships and horror, the hardworking people of the country are struggling to return some semblance of normalcy to their surroundings, and part of that process is deciding what to do about the massive amount of waste that has been generated by the disasters.

Early estimates have pegged the volume of waste anywhere between 80 million and 200 million tons. Japan's usually stringent policies for dealing with waste have been thrown into disarray by unforeseen situations, unpredictable availability of power for incinerators, disruptions in usual services and the sheer volume of material to be managed.

Foremost amongst a myriad of concerns are asbestos and PCB contaminated debris. Currently the majority of the debris remains wet and mostly inert. However, some are concerned that as the country dries out, the dangerous substances that were previously contained by moisture in the atmosphere will be released into the air to wreak further havoc upon relief workers and cleanup crews.

And as if that were not enough, fears of potential radiation contamination further complicate an already dismal outlook.

The problem gets bigger. The tsunami that caused such massive damage also carried with it to sea an unknown amount of debris that is expected to reach Hawaii in several years. Remediation of the damage from this natural disaster will be far-reaching, and the total cost and effort not realized until years from now.

It's an interesting time to be involved in the waste industry. There will be many lessons to be learned from watching this overseas drama unfold, and the wise will take notes and review the adequacy of their own crisis management plans.

Until next month,



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Arnette Limited to pay civil penalty for hazardous waste violations

Arnette Limited, LLC, a manufacturer of epoxy blends and advanced resins, has agreed to pay a \$90,591 civil penalty to the United States to settle a series of violations of environmental regulations related to the storage of hazardous wastes and the public reporting of toxic chemicals at its facilities in Richmond, Missouri.

According to an administrative consent agreement filed by the Environmental Protection Agency (EPA) Region 7 in Kansas City, Kansas, in December 2008 the agency conducted a compliance inspection of Arnette's facility and found that it was operating as a hazardous waste treatment, storage or disposal facility without a permit, as required by the federal Resource Conservation and Recovery Act (RCRA) and Missouri state regulations.

At the Wollard Boulevard facility, Arnette also failed to conduct hazardous waste determinations on waste vacuum

pump oil, epoxy intermediate process water, diatomaceous earth waste and an area of spilled material on the floor of the facility's hazardous waste tank storage area, the inspection noted. The inspection at the Wollard Boulevard facility also noted numerous violations involving failures to comply with hazardous waste generator requirements.

Subsequently, a November 2009 inspection of Arnette's facility found the company had failed to submit reports to EPA and the state of Missouri concerning quantities of certain toxic chemicals that were manufactured, processed or otherwise used at the facility during 2006, 2007 and 2008. Those chemicals included diisocyanates, 4,4-isopropylideneiphenol and lead compounds (for all three years), phenol (for 2007 and 2008) and isobutyraldehyde (for 2008).

Submission of the annual toxic chemical reports is a requirement of the

Emergency Planning and Community Right-to-Know Act (EPCRA). Under EPCRA regulations, companies of certain size are required to submit annual reports to EPA and state authorities listing the amounts of regulated chemicals that their facilities release into the environment through routine activities or as a result of accidents. The reports provide an important source of information to emergency planners and responders, and residents of surrounding communities.

EPCRA was enacted by Congress in 1986 as an outgrowth of concern over the protection of the public from chemical emergencies and dangers. After the catastrophic accidental release of methyl isocyanate at Union Carbide's Bhopal, India, facility in December 1984, and a later toxic release from a West Virginia chemical plant, it was evident that national public disclosure of emergency information was needed.

EPA reaches settlement to clean dump site

The Environmental Protection Agency (EPA) has reached a \$1.2 million settlement with 49 small parties, called de minimis parties, for the Casimira Resources Superfund Site (CRSS) – a former California hazardous waste disposal facility that accepted approximately 5.6 billion pounds of waste from nearly 10,000 generators between 1973 and 1989.

This is the fifth in a series of de minimis settlements at the site. To date

The facility collected more than 5 billion pounds of waste between 1973 and 1989.

more than \$110 million has been collected toward cleanup from generators of hazardous waste disposed of at the site and from the site's former owner-operators.

The agreement requires the 49 parties to pay a proportionate share of the estimated \$284 million total cost of cleaning up the site and resolves their liability for the more than 13 million pounds of waste they collectively sent

to CRSS. The settlement includes cleanup costs and potential natural resource damage claims by various government agencies including threats to endangered species and other habitats. As part of the agreement, EPA will collect a total of over \$1.2 million, equal to approximately \$0.09 per pound of waste that the parties sent to the site.

EPA assumed the role of the lead regulatory agency in 1992 after the facility's owners and operators abandoned efforts to clean up the site. EPA undertook emergency response action activities, while concurrently seeking participation in site work by former customers of the facility. The site was placed on the National Priorities List in September 2001.

Waste Management opens Philadelphia recovery facility

Waste Management celebrated the launch of its Philadelphia Material Recovery Facility (MRF), located in Northeast Philadelphia.

Waste Management invested over \$20 million to create one of the most advanced single-stream technology plants in operation at a former brown-field site. The Philadelphia MRF is the largest such facility in the region and can sort and process more than 20,000 tons of recyclable newspaper, cardboard, aluminum, glass and plastic each month. The plant also captures materials that were historically discarded, such as film plastic and rigid plastics, expanding the range of materials that can be recycled.

The Philadelphia MRF accepts materials from the City of Philadelphia's single-stream residential collection program as well as from other

communities and commercial customers in the region. Once fully staffed, the facility will employ over 70 people, most of them hired from the Philadelphia area.

The Philadelphia MRF was constructed using sustainable building and design techniques and has received LEED Silver certification from the U.S. Green Building Council. The siding and roofing of the processing building contain over 80 percent recycled content; advanced stormwater management systems, including a green roof on the office facility, treat stormwater to improve its quality prior to release.

This project is part of Waste Management's sustainability initiative to nearly triple the amount of recyclable materials it recovers, from approximately 8 million tons today to over 20 million tons by 2020.

AR Upcoming Section B editorial focus topics

ISSUE	CLOSE	FOCUS
JUN	05/17	Alt. Energy
JUL	06/17	Municipalities
AUG	07/18	Waste
SEP	08/15	Auto Recycling
OCT	09/17	Electronics

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Covanta initiates regular quarterly dividend

Covanta Holding Corporation announced that its board of directors has approved the initiation of a regular quarterly dividend of \$0.075 per share.

On an annualized basis, that would represent a dividend of \$0.30 per share, or approximately 15 percent of their estimated 2011 Free Cash Flow, based on the mid-point of the guidance range. The initial payment was made on April 12, 2011 to stockholders of record as of the close of business on March 30, 2011.

Covanta also announced that its board of directors has authorized an additional \$50 million in share repurchases, bringing the total authorized amount to \$200 million. As of the end of 2010, the company had repurchased 6.1 million shares at a cost of \$95 million.

Covanta expects to fund the regular quarterly dividend and share repurchases during 2011 using cash on hand and cash generated from the business. The repurchases may employ a variety of methods including open market purchases, privately negotiated transactions, block trades or otherwise, or any combination of methods. The amount and timing of any repurchases will be determined based on an evaluation of a variety of factors at the time of any repurchases. The share buyback authorization does not obligate the company to acquire any specific number of shares in any period, and may be modified, suspended or discontinued at any time without notice to shareholders.

Casella Waste acquires PA landfill

Casella Waste Systems, Inc. has acquired a municipal solid waste (MSW) landfill in McKean County, Pennsylvania out of bankruptcy proceedings on February 24 for \$0.5 million in cash and the assumption of certain contractual obligations. The roughly 230 acre landfill is permitted by the Pennsylvania Department of Environmental Protection to accept 1,000 tons per day of MSW by truck and 5,000 tons per day by rail. While a rail siding is permitted at the site and the property abuts a railroad spur, the company has no immediate plans to build a rail siding. The site has over 33.5 million cubic yards of permitted airspace. The company estimates the net present value of assumed contractual obligations and closure and post closure liabilities at approximately \$4.2 million.

Walmart

Continued from Page 1

ing waste reduction efforts in California in 2009. A third-party review has shown Walmart uses an appropriate process to establish its waste reduction data. The nationwide program, based on the California model, will include an ongoing review to monitor the program's success.

BD and Waste Management launch initiative to recycle medical sharps waste

MELONSTONE | DREAMSTIME

Becton, Dickinson and Company (BD) and Waste Management Healthcare Solutions, a subsidiary of Waste Management, Inc., have announced an agreement to recycle medical sharps waste from hospitals and other healthcare facilities. The companies are jointly launching the BD ecoFinity™ Life Cycle Solution, a service that will recycle medical sharps waste and utilize the material to manufacture new products.

Single-use medical devices such as needles and syringes provide clear clinical and public health benefits. However, hospitals are increasingly concerned with reducing waste and avoiding unnecessary costs. Drawing upon Waste Management's expertise in the collection and management of medical waste and BD's leadership as a global medical technology company, the BD ecoFinity program will enable hospitals to reduce their environmental footprint and avoid additional costs without compromising patient care.

"BD's long-term objective is to reduce the environmental impacts of our products at each stage of the life cycle," said Bill Kozy, executive vice president, BD. "The collaboration between Waste Management and BD will help healthcare



BD believes that more than 70 percent of its overall sharps waste may be recovered and recycled rather than permanently disposed of in landfills.

facilities reduce the materials that go into disposal. We are also working to reduce the use of raw materials, increase the use of recycled materials in new products and manufacture products in a more sustainable manner."

Based on results of a pilot program at Rady Children's Hospital-San Diego, BD believes that more than 70 percent of its overall sharps waste may ultimately be recovered and recycled rather than permanently disposed of in landfills.

EPA issues asbestos compliance order in PA

The Environmental Protection Agency (EPA) issued an administrative compliance order on March 31, 2011 to the owner, Arsenal Associates, and the property management company, Hankin Management, Inc., of the Arsenal Business Center, located in Philadelphia, Pennsylvania.

EPA's order, which became effective on April 6, addressed alleged violations of Clean Air Act regulations of demolition and renovation activities involving buildings with asbestos-containing materials. The alleged violations were discovered between September 2010 and March 2011.

The order alleged that Hankin and Arsenal violated the Clean Air Act asbestos regulations by failing to provide adequate notice to EPA of demolition/renovation projects involving asbestos; failing to adequately wet all regulated asbestos containing material which had been

removed or stripped from the site and to ensure that all of these materials remained adequately wet until collected and contained in preparation for proper disposal; and failing to properly dispose of asbestos-containing waste material as soon as practical.

A&R EQUIPMENT SPOTLIGHT

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

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

UPCOMING TOPICS

6/11	Solar Energy Systems
7/11	Collection Technology
8/11	Waste Receptacles
9/11	Rollbacks
10/11	Electronics Conveyors

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EQUIPMENT SPOTLIGHT

Refuse Bodies

by MARY M. COX

maryc@americanrecycler.com

Among the countless refuse truck body manufacturers around the globe, it seems that features touted the most revolve around versatility in product usage and energy source.

Pak-Mor Limited manufactures an array of refuse collection vehicles for various mobile waste and recycling collection applications. "Our product mix of rear loaders, front loaders, and commercial side loaders ensures our ability to meet the specific needs of each customer. We pride ourselves in being a family-oriented business, focused on private haulers and smaller municipalities in need of rugged, low maintenance equipment that's easy to use," stated Ben Hund, director of product management.

He added, "In recent years we've noticed an increase in demand for the smaller, rear load body configurations. For example, our RBS series rear loader – we call it the Bandit – is available in 6, 8, and 10-yard body configurations with several options. Light and maneuverable, the Bandit is perfect for missed



Pak-Mor

stops, gated communities, or tight alleys where larger machines won't fit."

"As our industry matures and adds environmentally-savvy features into more products, fuel systems may still be bulky, complex, and far from perfect, but they continue to improve now that everyone is thinking green. It's an exciting and challenging time to manufacture refuse collection bodies," Hund said.

McNeilus manufactures a full line of refuse bodies, including rear, front, and side load, both manual and automated. Jeffrey Swertfeger, director of marketing and communications, said, "Specifically, our rear loaders have set the bar for toughness, value and no-holds-barred productivity for over 20 years. From our smaller M5 11-yard,

rear load body, up to our 32-yard XC Rear Loader, our customers appreciate the simplicity, durability and productiv-



McNeilus Truck and Mfg. Co.

ity that McNeilus rear load bodies offer – whether for small, one-truck fleets, the nation's largest refuse haulers or large municipal fleets."

McNeilus has sold front loaders since 1992 via their Atlantic and Pacific product line. The Atlantic Series Front Loader® is designed for tough, commercial markets where payload and productivity are king. With AR450 body construction and 10,000 lb. rated arms, combined with the Mailhot® Excalibre® packing cylinders, the product's reliability and productivity are popular with customers, Swertfeger stated.

He said the Pacific Series Front Loader® was designed to tackle the West Coast's need for a maximum payload, lightweight front loader, appropriate for commercial and residential

waste that reduces overall gross vehicle weight rating. The Pacific Series debuted in 1999, but today's fleet requirements demand a lower-profile front loader that accommodates CNG tanks and residential can options. As a result, McNeilus offers the Pacific Series Lo-Pro Front Loader. The Lo-Pro is designed to handle top-of-body CNG tank installations and can be configured as an Automated Front Loader, combined with the Currot to Can Slammin' Eagle system.

For automated collection, McNeilus offers products like the AutoReach® Automated Side Loader. It is the only automated product with an arm that articulates both left and right, in addition to reaching out to grab cans.

Since entering the market in 1996, the AutoReach has been part of automated fleets throughout the country.

The ZR Series Side Loaders accommodate customers who need a zero-radius arm, allowing them to handle tight streets, narrow alley ways, and congested routes. "Our engineers developed a collection system that meets these needs while also providing a simple-to-maintain control system. The system removes over 800 feet of wire from the cab, while providing customers with a simple-to-operate, responsive product. As

with our other products, the ZR is available in a 24 to 31-yard size and can easily be configured for CNG systems. We also offer a robust line of manual and semi-automated products – the McNeilus M and MA Series Side Loaders," said Swertfeger.

Swertfeger claimed that McNeilus is a leader in alternative fuel vehicles and was the first refuse body manufacturer to develop a completely integrated CNG installation. The system was completely tested and installed at the McNeilus manufacturing facility and they sell hundreds of CNG-powered refuse bodies each year, throughout the country. Swertfeger stated, "With the volatility of diesel fuel prices and the need to reduce American dependence on foreign oil, we understand the significance of domestically-produced CNG, its positive environmental impact and



Labrie Environmental Group

its impact on lowering fuel expenditures for fleets and municipalities."

Gaetan Bolduc is national sales manager at Labrie Environmental Group, a manufacturer of refuse truck bodies. Bolduc explained the features of the company's Automizer Right Hand™ side loader: "It has the highest level of engi-

neering, the smoothest arm and the highest productivity in the industry. The product is ideal for fully automated residential refuse and recycling collection and the Hardox 450 hopper increases the life of the vehicle while lowering maintenance

See SPOTLIGHT, Page 5

Manufacturer List

Bridgeport Mfg., Inc.
Shyla Shaw
940-683-5477
www.bridgeportmfg.com

HEIL Environmental
Neal Williams
866-275-4345
www.heil.com

Kann Manufacturing Corp.
Becky Kelly
563-252-2035
www.kannmfg.com

Labrie Environmental Group
Gaetan Bolduc
418-831-8250
www.labriegrup.com

Loadmaster
Al Michaud
906-563-9226
www.loadmaster.org

McNeilus Truck and Mfg. Co.
Jeffrey Swertfeger
507-374-8248
www.mcneilusrefuse.com

Pak-Mor
Ben Hund
830-303-7256
www.pakmor.com

Pendpac, Inc.
Steve DeGeorge
602-524-3787
www.pendpac.com

Scranton Manufacturing
Phil Allen
800-831-1858
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Spotlight

Continued from Page 4

costs and increasing durability. CNG and co-mingle design options, diverse body specifications and over 20 features are offered."

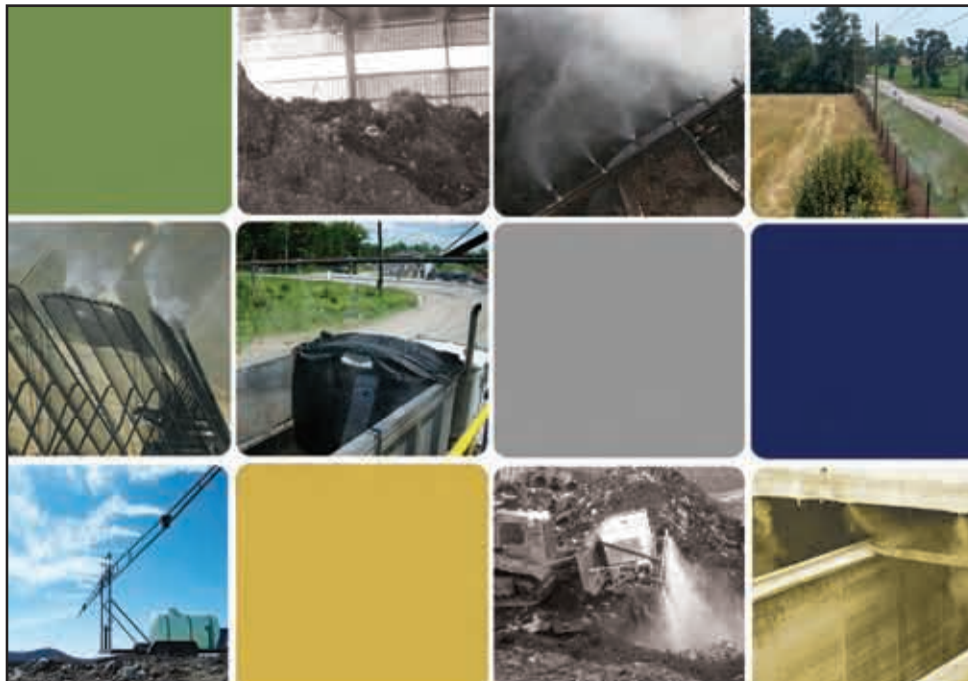
The company's Leach™ Rear Loaders are built for the toughest industry situations and offer a wide variety of rugged bodies to choose from (14-32 cubic yards) for residential, commercial and demolition applications. Large 3.0 and 3.5 cubic-yard hoppers enable the continuous filling of material even during the packing cycle. The Leach is the only truck with a unique single piece floor trough design, which creates a sump channel that can hold 300 gallons of leachate. A CNG-ready installation option with choice of behind the cab, roof or chassis mounting is available. An ergonomic design provides a loading sill height at 5" below the chassis frame, for increased efficiency and safety. Bolduc noted that the Leach Diamond Plate Packer design delivers increased compaction power.

Bolduc said, "Our Wittke™ Front Loaders feature increased payload, fast cycle time, efficiency and lower body weight over similar products in the industry. The Wittke Startlight and Superduty models attained the 'Hardox in my body' certification in 2007. A minimum of 5 percent higher legal payload is attainable with a Wittke front loader, due to the product's lower body tare weight by design and high compaction ratio. The innovative Digiload™ weighing system, exclusive to Labrie, has strategically-installed sensors that detect the actual weight of materials in the waste bin or wheeled cart while it is in motion and loading. Wittke CNG products are the

lightest in the industry, enabling maximum payload. We are the single-source solution for CNG body rooftop installation, with over 15 standard features, including a rear harness access panel."

The Labrie Expert™ side loader offers optimal versatility and efficiency as a manual, semi-automated or automated side loader with a drop frame. The design enables operators to perform manual collection with ease due to the low sill height, semi-automated collection with cart tipplers on street side or curbside or automated collection with the Helping-Hand™ arm. A dual Helping-Hand option offers automated collection from both sides of the vehicle, which is well-suited for collection in a one-way street or an alley. CNG options include body rooftop or behind the cab mounting, built to handle up to five CNG tanks.

Heil Environmental is an industry leader in specialized truck body manufacturing and product support. They market their new DuraPack 4060 Split-Body Rear Loader as the ideal vehicle for customers who manually collect multiple commodities on a single route. The loader reduces the need for multiple truck routes. It also has the compaction power to handle bulky ferrous waste like used appliances and sheet metal scraps, and the sealing ability to handle wet waste like organics or food scraps. Heil's multi-compartment rear loader features smooth curved sides and a fully welded, interlaced sub-frame which has become an industry benchmark in durability and longevity. The DuraPack includes reliable, fully-sealed electrical controls for operating both tailgates from either side and is available with a range of options to accommodate specific customer applications.



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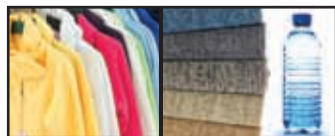
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A Closer Look

by Donna Currie

Daily Disposal Services Todd Ottonello • 619-702-3300

In the early years of his business, Todd Ottonello, then a sophomore in college, would sit in the back of a classroom with 200 other students and talk to drivers on his cell phone. Later, he and his brother, Nick, then a college freshman, hired someone to run the office while they were in school.

Ottonello wasn't new to the waste business, though. His father had worked in the business, as had his father before him. Ottonello had started working in the industry as soon as he could get a job, assembling bins and doing odd jobs. "As soon as I turned 18, I got my commercial license," he said.

But unlike some family businesses, Ottonello didn't inherit his business; he and his brother started it from the ground up. He had been working for a waste hauler while he was in college, but declined to stay on when that hauler was bought out by a national company.

When the city of San Diego started taking applications for waste franchises, Ottonello applied for one, and then applied for a county franchise. He and his brother started the business in 1999 with one truck and driver, and have grown the business to nearly 50 trucks and 60 employees.

Ottonello said that when he started the business, he was more excited about that than about college, but his parents encouraged him to stay in school. Both he and his brother finished school with degrees in business administration while running and growing their business.

Although Daily Disposal isn't a generations-old business, the name is a bit older. Ottonello's grandfather had owned a waste business with that name, and when he passed away, Ottonello's father, then about 19 years old, inherited the business, along with an older sister. At the time, it was decided that selling the business was the best option, and the business name continued.

In the 1980s the company that purchased the business let go of the Daily Disposal name, so when Ottonello started his business in the late 90s, the name was again available. So he took it. And unlike family businesses where sons go to work for their fathers, Ottonello's father came to work for him after the business was on its feet.

While Ottonello enjoys the dispatching, sales and administrative work, his brother is "more focused on the mechanics of it." With that expertise, Ottonello said, "we do everything here in-house, except transmissions," with Ottonello's brother supervising the mechanics.

Ottonello's first truck was a roll-off for commercial customers, then he added on front-load commercial service. In January of this year, the company started offering residential service. To get new customers, Ottonello said, "We are going door to door. We have over 1,000 houses already."

With the current franchise arrangements, they can operate anywhere within San Diego County, so he has plenty of doors to knock on, and he hopes to triple the number of residential customers by the end of the year.

While the company is now operating "on dirt with modular buildings," they have purchased a 5-acre property on asphalt, and have plans for an 8,000 sq. ft. 2-story office space with a 12,000 sq. ft. shop with 3 mechanic's bays. In the future, Ottonello would like to have his own transfer station, but for now he's happy to have permanent office space, a good shop, and room to park and fuel his trucks.

Another thing he needs is a way to plug in his trucks, since regulations require that his diesel waste hauling trucks have diesel particulate filters that reduce emissions by up to 85 percent. Those require that the trucks be plugged in at night to burn off the soot.

Ottonello said that when the regulations were first in place, he had to have those filters installed on a smaller percentage of his fleet, but now 100 percent of his trucks have the filters, even though it's a bit of a challenge to run 220-volt lines to reach every parked truck.

Two of those trucks are a little bit special, Ottonello said. A little larger than a pickup truck, they are mini roll-off trucks that can haul 10-yard boxes. Those are ideal for customers who need something larger than the 3-yard commercial boxes, but are in locations where a larger roll-off truck can't fit.

In the testing stages now is a new computerized system for in-truck reporting, so that information goes immediately to the office. Ottonello said that he would like to add in-truck printers to the system as well, so drivers could give customers cleanly printed tickets instead of hand-written ones.

But the business isn't all about the equipment. Ottonello stressed that at his office phone calls don't get automatically routed to voicemail, and that a live person can answer customer questions. And because the company is small and the owners are hands-on, "we can make a quick decision." Ottonello said. "We can hire someone right away," if that's what's needed to improve service.

He's even more proud that his company's growth has been about "go get 'em sales" rather than by acquiring other companies, and that the increase in customers has been "organic, natural, one-by-one."

At the end of the day, Ottonello said that his favorite thing is to watch the trucks come rolling back in and fueling up for the next day.

Fly ash waste

■Continued from Page 1

at high compression rates – similar to those experienced in high-speed auto accidents – and found that the light-weight foams absorb more energy than the solid metals.

"Composite metal foams made with fly ash could be seamlessly incorporated into vehicle manufacture with no compromise in performance," said Gupta. "As a starting point, these materials are ideal replacements in automotive parts that aren't load-bearing – for example, engine and wheel covers and intake manifolds, where the weight and strength of solid metal doesn't provide any benefit – in fact, it just costs more and weighs more."

Diverting fly ash for use in metal foams has significant environmental and cost-saving benefits. First, it keeps toxic ash out of landfills and preserves the \$1 billion spent annually disposing of this waste. Second, manufacturers can reduce their costs by purchasing smaller quantities of expensive metals that take a high environmental toll in mining and production. Lastly, because additions of fly ash make automotive parts lighter in weight, the finished vehicle requires less fuel to operate, leading to further energy and cost-savings for consumers.

Studies have shown that reduction in vehicle weight by 10 percent can lead to an improvement of about 5 percent in fuel economy. With 137 billion gallons of gasoline consumed each year

in the United States, this can translate into more than \$22 billion in savings at the current gas prices. The JOM reports estimate that replacing 10 percent of solid aluminum with fly ash in a manufacturing application would result in an approximate 8 percent overall weight-savings.

While fly ash itself is available at no cost, companies would need to bear the cost of transporting the material and preparing it for use.

Composite foams made from fly ash could be widely useful outside the automotive industry. Everyday items such as highway and runway signs, park benches, lamp posts, sliding tracks for windows and home accessories like doorknobs could all be made lighter and less expensive through the incorporation of metal foams, according to Gupta. "Look around you – anywhere you see aluminum or steel, there's an opportunity for these materials," he said.

Research funding was provided by the United States Office of Naval Research and the National Science Foundation. The papers, "The Synthesis, Compressive Properties, and Applications of Metal Matrix Syntactic Foams" and "High Strain Rate Compressive Characterization of Aluminum Alloy/Fly Ash Cenosphere Composites," were co-authored by Pradeep K. Rohatgi of the University of Wisconsin-Milwaukee. Dung D. Luong, a doctoral candidate at NYU-Poly, was involved in the research.

As the doctor was wrapping up an examination of his patient, he said, "I can't find a cause for your complaint. Frankly, I think it's due to drinking."

"In that case," said the patient, "I'll come back when you're sober."



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Casella Waste Systems releases 2011 third quarter results

Casella Waste Systems, Inc. reported financial results for its third quarter fiscal year 2011. For the quarter ended January 31, 2011, revenues were \$111.6 million, up \$1.7 million or 1.6 percent over the same quarter last year, driven mainly by solid waste volume growth and higher commodity prices. Operating income was \$6.3 million for the quarter, down \$1.1 million from the same quarter last year. The company's net loss applicable to common shareholders was (\$6.4) million, or (\$0.24) per common share for the quarter, compared to (\$4.4) mil-

lion, or (\$0.17) per share for the same quarter last year.

"While our third quarter results were below last year's performance and our plan, the underperformance was mainly driven by adverse weather and non-recurring events," said John W. Casella, chairman and CEO of Casella Waste Systems. "The bad winter weather during the quarter impacted operational performance, with lower than projected productivity throughout the solid waste business and lower waste volumes. Our landfill volumes were lower year-over-year by

4.4 percent, with the negative variance attributable to reaching annual permit limits at several key sites in early December and lower volumes in January due to the bad weather."

"Since last quarter our team has done an excellent job completing important long-term strategic goals aimed at improving our balance sheet today and better positioning us for the future," Casella said. "These strategic accomplishments include:

- "We successfully divested our non-integrated recycling facilities for \$134.1 million, with net proceeds of

approximately \$120.0 million used to permanently pay-off our Term Loan B.

- "We refinanced our \$195.0 million 9.75 percent Senior Subordinated Notes due 2013 with new \$200.0 million 7.75 percent Senior Subordinated Notes due 2019, yielding significant interest savings.

- "We acquired a municipal solid waste landfill in McKean County, Pennsylvania out of bankruptcy proceedings for \$0.5 million in cash and the assumption of certain contractual obligations."

Insulation

■Continued from Page 1

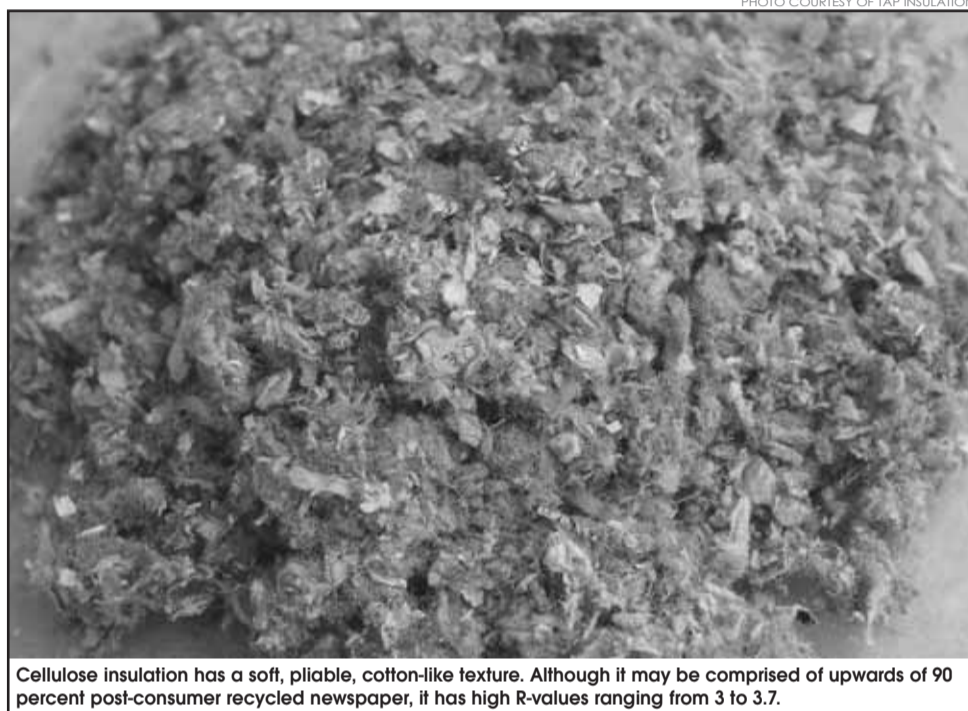
weatherization for low-income households. The 2011 federal tax credit is also helping cellulose insulation sales since homeowners may qualify for a tax credit of \$500 or 10 percent of the cost.

Despite a national trend towards energy conservation, the recession has stagnated new construction and retrofits and impacted cellulose insulation. In 2006, the industry hit an all time high production high of 889,827 tons according to a CIMA survey of 21 member manufacturers. But 2009 production dropped to 490,513 tons. Yet, while production decreased 45 percent during that time, the use of recovered paper was down just 34 percent for the same period. Seventy-four percent of the recovered paper used by the industry in 2009 was post-consumer, and the percentage of recovered paper that was post-consumer has remained relatively stable at 72 percent in 2006, which actually increased to 73.9 percent in 2009.

Today, cellulose accounts for approximately 15 percent of the total insulation market, but architects, builders, homeowners and the green community are increasingly recognizing its environmental benefits. In manufacture, cellulose consumes less energy than any other type of insulation and is made almost entirely of recycled content – mostly old newsprint. In doing so, it diverts paper from landfill, conserves landfill capacity and reduces greenhouse gas emissions.

According to CIMA, cellulose insulation requires less embodied energy than any other type of insulation. This includes the total energy required to transport raw materials, manufacture and distribute the product. Fiberglass has up to 10 times more embodied energy than cellulose, and foam products up to 64 times more.

Bill Turk, co-founder and CEO of Pest Control Insulations Systems, the developer of TAP brand pest-control cellulose insulation, discussed the company's raw material supply; "Because TAP is manufactured to our specifications in 19 different locations throughout the country, the paper used in the product is sourced from many different locations. The paper used is typically a Number 9 grade news or ground wood product that each of our manufacturing



Cellulose insulation has a soft, pliable, cotton-like texture. Although it may be comprised of upwards of 90 percent post-consumer recycled newspaper, it has high R-values ranging from 3 to 3.7.

partners purchases by the ton. The word on the street from our partners is that the paper market is tightening due to increased exports and less reclaimed paper available due to changing habits and use of electronic communication versus hard copies."

From a competitive and environmental standpoint, cellulose offers advantages over other types of insulation such as fiberglass and spray foam polyurethane products. It's usually much cheaper and contains fewer toxic chemicals. But cellulose is saddled with consumer misconceptions that it is old-fashioned, a fire hazard, that it retains moisture or attracts pests – all of which are inaccurate.

"The most common misunderstanding about cellulose insulation is that it creates a fire hazard or that it is flammable," said Turk. "Nothing could be further from the truth, and there are numerous scientific tests and real-world experiments that confirm cellulose insulation actually makes a structure more fire resistant because it's treated with a fire retardant. Another misconception is that cellulose promotes the growth of mold or mildew. This is also not true."

In fact, cellulose insulation is one of the world's greenest building products. It contains a minimum of 75 percent post-consumer recycled content and can contain upward of 90 percent post-consumer recycled newspaper. It has high R-values ranging from 3 to 3.7 and uses low volatile organic chemicals (VOCs), such as borates and ammonium sulfates, in its

manufacture as fire-retardants and preservatives.

Although many brands of cellulose are chemically treated with some formulation of borates for fungal and/or fire resistance, there are only two products that are EPA labeled to offer pest control. One is made by InCide Technologies, Inc., the other by Pest Control Insulation Systems Inc.

Turk said that TAP insulation was introduced in 2001 after four years of testing in order to obtain a patent, an EPA label and registration in several states for building code compliance.

Without an EPA label, it is unclear whether an insulation product has any effect on pests. TAP is infused with a specific grind of boric acid that serves as the pest control agent. Insects do not eat the insulation, rather the boric acid attaches to their bodies as they crawl through the insulation. They ingest the acid when they groom themselves and die.

"A key benefit is that it works for the life of the structure because insects cannot build up a tolerance to boric acid. If properly installed and left undisturbed, the insulation never requires additional treatment. Insects are not repelled by borates, as they are unable to detect its presence. It also has about half the chemical loading compared to other pest control insulations," Turk explained.

Like most all cellulose insulations, TAP is a loose-fill type that is most often blown under pressure into attics in new construction, or blown in on top of exist-

ing insulation in older buildings. In older buildings, holes are drilled in walls and the material is blown in under pressure to entirely fill the wall cavity.

"We've garnered a lot of positive attention from the green building community recently," said Turk. "They like TAP since it is not only a green building product, but an innovative, proactive, green method of pest control as well. When viewed in the context of the entire product life-cycle, from production to use to disposal, few, if any, insulation products can match the environmental benefits. We are energy star labeled and qualify for multiple LEED credits. When properly installed, TAP meets building code requirements for thermal insulating materials evaluated by BOCA, CABO, ICBO, ICC-ES, SBCCI, and the Model Energy Code."

Currently, the majority of TAP is being installed in residential retrofit applications due to various state regulations restricting those entities who may apply pesticides. However, PCIS, the company that markets and sells the product, is working within the regulations to create a new construction program that will likely come into effect in 2012.

In conclusion, Turk discussed the cost-effectiveness of cellulose insulation, as well as his opinion regarding the future of the cellulose market:

"From a product cost standpoint, foam is typically at least twice as expensive as TAP and generally about 20 percent more expensive than fiberglass. The future of cellulose insulation and TAP is bright. As builders and consumers become more aware and sensitive to the environmental aspects of the building products they use in homes, and buildings, along with the energy savings available by adding insulation on top of what already exists in a home, cellulose stands to gain significant market share since it is the 'greenest' of all the insulation products and out-performs traditional insulation in nearly every measurable category. With TAP insulation in a structure, it's evolving from merely a thermal barrier to a thermal barrier plus a method of pest protection. It's a two-in-one approach that offers tremendous value to homeowners."

Most significantly, as the housing industry recovers and energy prices continue to rise, cellulose is better suited for use in homes, offices and other buildings providing comfort and cost savings than waiting for decomposition in landfills.

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