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NewsVoice of Salvage, Waste and Recycling

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Plastic bag fee set for Seattle

Seattle City Council passed an ordinance that will charge shoppers a fee on disposable plastic and paper shopping bags. A separate ordinance was also passed that bans expanded polystyrene food containers. This new ordinance makes Seattle the first city in the nation to encourage its residents to curtail the use of disposable bags and instead utilize reusable options by imposing a fee on disposable shopping bags.

One part of the package creates a fee of \$0.20 for disposable shopping bags provided at convenience, drug, and grocery store cash registers, beginning on January 1, 2009.

Seattle Public Utilities estimates 360 million disposable bags are used in the city every year. The proposal focuses on these stores because they are the source of more than 70 percent of all disposable shopping bags distributed. The fee applies to both paper and plastic and is expected to reduce the use of disposable bags by more than 50 percent, or at least 184 million bags annually.

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Municipalities shift attention to single-stream recycling collection

Cities weigh advantages against disadvantages

by Brian R. Hook

As the head of the solid waste bureau in Baltimore, Valentina Ukwuoma is getting daily calls from other communities wanting to learn more about single-stream recycling, where all recyclables are mixed together in one collection container.

Baltimore, which started single-stream collection in January, is only one on a growing list of municipalities across the country to launch single-stream recycling.

“Single-stream is working better than most expected” in Baltimore, Ukwuoma says, noting that the tons recycled by the city have increased by 20 percent.

“The simplicity of single-stream recycling encourages more people to participate, increasing volumes, which increases the amount of material diverted from landfills.”

Before single-stream recycling was introduced, residents in Baltimore had to separate their paper and cardboard from their bottles and cans. The city had two different

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PHOTO COURTESY OF TIDEWATER FIBRE CORPORATION

A collection truck from Tidewater Fibre Corporation gathers single-stream recyclables at the curb of residences within their route.

Ohio State Fair cuts down on waste

Recycling at the Ohio State Fair expanded this year with the ‘Waste-Less’ concept. This year’s ‘Taste of Ohio’ building was designed to eliminate most trash from the various food vendors.

Patrons of the ‘Taste’ cafe were served meals with biodegradable plates, utensils and cups. When finished, there were three bins for clean up. The blue bins were for bottles and cans, the green bins handled food scraps and the biodegradable service ware, while the brown bins were for the remaining trash.

SWACO, the Ohio Department of Natural Resources (ODNR) and The Ohio State Fair partnered on the ‘Waste-Less’ program. “This pilot program is designed to show people just how much waste we create,” says SWACO executive director Ron Mills. “When we make a little extra effort we can substantially cut the amount we throw away.”

The pilot ‘Waste-Less’ program was part of the ongoing effort to expand recycling at the

Ohio Expo Center and State Fair. Another part of a \$100,000 ODOR grant was the addition of new recycling containers. Approximately 600 blue bins were located near trash containers in high traffic areas on the Fairgrounds.

This is the second year that the ‘Taste of Ohio’ cafe has composted the food waste. In 2007, more than 4,000 pounds of leftovers were collected for reuse. The Fair also recycles grass clippings from its facilities, amounting to acres of clippings used for compost, mulch and soil additives.



Fairs draw thousands of consumers annually.

Concrete runways are transformed into office walls

Arvada-based ReCrete Materials, Inc. got the runways from the former Stapleton International Airport to stand on end.

In a unique effort, Etkin Johnson Group, general contractor Murray and Stafford, Inc., concrete contractor CAL Construction, Inc. and Forest City Development are using ReCrete’s ready-mix concrete made from the former airport’s recycled runways to create the tilt-up panels (outer walls) for their office and industrial development, Enterprise Park at Stapleton.

According to the Tilt-Up Concrete Association, the 3.1 million pounds of recycled concrete used on this project is the largest use of

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Miami-Dade County to begin utilizing single-stream system

Waste Management, Inc. and its wholly owned subsidiary, WM Recycle America (WMRA), announced a partnership with Miami-Dade County to launch one of the nation's largest residential single-stream recycling programs.

Located in Pembroke Pines, Florida, the 100,000 sq. ft. facility has the capacity to process up to 1,000 tons of recyclables per day and is the largest and most advanced single-stream recycling operation in the nation. It is also only one of two in the state and the first of its kind in the South Florida area.

The facility employs advanced recycling technology including magnets, screens and optical scanners to automate the sorting of recyclables.

The efficiency of the single-stream process can improve local recycling programs by increasing capacity, resulting in an average recovery of up to 30 percent more recyclable materials, while maintaining material quality equal to if not better than traditional recycling processes.

"The single-stream recycling process makes it much easier for our residents to recycle," said Miami-Dade County Department of Solid Waste Management director Kathleen Woods-Richardson. "With more than 340,000 households, the new Miami-Dade recycling program can make a tremendous positive impact on our environment."

Waste Management operates 31 single-stream recycling facilities across the country and an additional 4 to 5 will begin construction or open this year.

Perham Resource Recovery fined

United States Environmental Protection Agency (EPA) Region 5 has reached an agreement with Perham Resource Recovery Facility, a municipal waste combustor in Perham, Minnesota, on alleged clean-air violations.

The agreement, which includes a \$15,950 penalty and a \$110,760 environmental project, resolves EPA allegations that the facility exceeded emission standards for hydrogen chloride and mercury.

Recycling hits the big leagues

Major League Baseball teams up to recycle

Collaborating with the Natural Resources Defense Council and Sims Metal Management, Major League Baseball (MLB) recently sent more than a hundred Green Team volunteers through Central Park. The volunteers collected approximately 150,000 plastic bottles and aluminum cans for recycling at the MLB All-Star Concert presented by Bank of America, starring Bon Jovi, in Central Park. In addition to the Green Teams, Aquafina provided bottle recycling bins and staff to encourage fans to be green.

Major League Baseball has been collaborating for more than two years with the Natural Resources Defense Council on the greening of professional baseball at both the League level and in collaboration with individual teams.

"MLB broke new ground tonight and set the standard for how to manage recycling at a major event," said Allen Hershkowitz, senior scientist at NRDC. "Wherever you went, there was a conveniently located, well-marked recycling bin laid out by Sims Metal Management or Aquafina. When fans were at their



Approximately 150,000 containers were collected for recycling in New York City.

spot on the great lawn, hundreds of friendly and easily identifiable volunteers were circulating with recycling bags to collect containers."

The greening of the MLB All-Star Concert followed an event earlier in the

day at the Kips Bay Boys and Girls Club, which unveiled a new playground financed by MLB Charities.

The play set was 98 percent manufactured by utilizing 22,000 recycled plastic milk containers.

R. W. Beck to study recycling infrastructure in California

R. W. Beck has been selected by the California Integrated Waste Management Board (CIWMB) to document the State's solid waste management and recycling infrastructure. The initiative aims to deliver this information, and a model for projecting future needs through a new, interactive web-based information system, to be added to CIWMB's expansive website.

"This is the first data gathering, management and modeling project of its size," says Ed Boisson, project manager at R. W. Beck.

Boisson believes the tool can help CIWMB and local governments evaluate current and future needs for recycling processing facilities, composting sites and other waste reduction infrastructure. Private sector firms could utilize the tool to investigate market opportunities.

The infrastructure inventory and information framework will also facilitate consideration of regional initiatives by mapping existing solid waste and recycling facilities and projecting regional waste generation and infrastructure needs.

As it gathers and manages data, R. W.

Beck will abide by the confidentiality requirements of facility owners and operators. The Firm will work with CIWMB on this two-year, \$900,000 project to research and collect data, and develop the final information framework, as well as a protocol for periodic updates.

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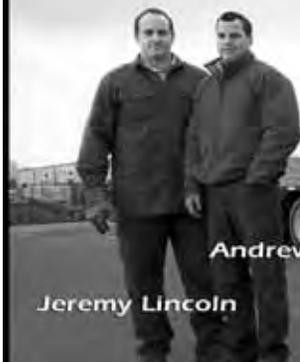
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Striking back at recycling thieves in New York City

by Irwin Rapoport

Thieves stealing recyclables in New York City (NYC) are concentrating their efforts on the theft of metal and paper in the residential and commercial sectors.

However, the City's Department of Sanitation's police force is fighting back and has been armed with some powerful legislation in the form of stiff fines and the ability to seize vehicles used by criminals.

In June, the police impounded 28 vehicles involved in the theft of recyclables in all five boroughs, including 12 in Brooklyn, 7 in Manhattan, 5 in the Bronx and 4 in Queens.

Mayor Michael Bloomberg, in October 2007, signed Local Law No. 50.

Among its provisions, the Law imposed stiff sanctions against persons operating a motor vehicle who unlawfully remove or transport recyclables placed at residential or commercial curbsides, and from premises occupied by city agencies and institutions that receive Department collection service.

Civil fines were increased from \$100 to \$2,000 for a first time offender and \$5,000 for second and repeat offenders within a twelve-month period.

The Department of Sanitation's New York (DSNY) police force, composed of uniformed and plainclothes police officers (about 80 personnel), patrol areas where large amounts of curbside recyclables are being removed unlawfully.

For its residential recyclables collection, the DSNY employs its own trucks and uniformed personnel. Private companies handle the commercial and institutional sectors. However, all recyclables end up in private transfer stations for processing.

"The thefts are pretty prevalent," says Inspector Robert D'Angelo, Enforcement. "We can keep track of how many recyclables are missing – each district does that."

D'Angelo noted that many of the thieves come from North Carolina and Pennsylvania, based on the information from seized vehicles.

While thefts have been a problem in the past, the rising value of recyclables has led to thefts increasing over the past few years, especially as scrap metal prices and demand for them continue to remain high.

The thefts affect the city's contracts with private contractors.

"We are required, based on projected volume," says Matthew Lipani, the DSNY's Assistant Director, Public Information office, "to send a certain amount of tonnage to these companies."

Paper thefts appear to be organized, based on arrests. "They seem to be connected to the same people," says D'Angelo. "We get family members – brothers, cousins and people with similar names. Since October 2007, we recovered 54,000 pounds of paper."

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Seattle fee

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The clear plastic bags used for individual items such as fruits, vegetables, and bulk items will not be subject to the fee.

In response to citizen concerns, the Council amended the legislation to direct Seattle Public Utilities to help seniors and low-income households by distributing free reusable bags and working with food banks, people using food stamps, and shoppers receiving other forms of direct assistance.

The bag fee legislation helps businesses defray the cost of administering the program by allowing larger retailers to keep \$0.05 of every bag to cover administrative costs. Small businesses, those grossing less than \$1 million annually, will be allowed to keep the entire \$0.20 fee.

Some of the funds generated will be used to offset a portion of the needed solid waste rate increase associated with new garbage contracts. Part of the funds collected will also go to support Seattle Public Utilities' waste prevention and recycling programs.

Another part of the new proposal will ban expanded polystyrene food containers from restaurants and packaging from grocery stores, beginning January 1, 2009. In July of 2010, foam trays for raw meat and seafood will also be banned and replaced with compostable alternatives.

Runways

Continued from Page 1

recycled concrete in a tilt-up application ever. "The current perception that recycled products may only be used for lower-end uses is obsolete," ReCrete president Jason Buesing states.

The developer, Etkin Johnson Group, plans to seek LEED certification for this project which includes three buildings with 441,000 square feet of office and industrial space within the

Stapleton Redevelopment. Energy efficient, green building design will be incorporated throughout. The decision to use recycled concrete for the project was based on several factors. "The material was readily available at nominal additional costs, it meets our quality standards and using it has positive environmental impacts," comments Jim Vasbinder, vice president of development for Etkin Johnson Group.

ReCrete Materials, Inc. is on the cutting edge of utilizing recycled concrete in new, ready-mix applications.

Projects to date have been private, public, industrial and commercial with a client list that includes the City and County of Denver, the City of Thornton, the City of Arvada, the Town of Golden and numerous local residential and construction firms. Utilizing concrete debris from Denver's former airport, as well as from various local demolition projects, conserves natural resources, reduces the volume of concrete in landfills and reduces the carbon footprint for ReCrete and their clients.

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Single-stream recycling debated by association

This summer, the Northeast Resource Recovery Association (NRRA) met with its member cities, towns and businesses to discuss single-stream recycling. The open forum included over 85 members with 38 communities represented and was meant to help members evaluate whether this program would be beneficial to their communities or businesses.

The single-stream recycling concept has been around for many years but is just starting to be considered in New Hampshire. Single-stream recycling allows residents to put all recyclables in one bin where it is then transported to a facility to be sorted. This program increases the recycling rate but also limits the income that communities receive for their commodities. Some single-stream recycling programs have estimated that they pay between \$10 and \$15 a ton for mixed recyclables delivered to the single-stream facility. Currently, Goffstown, New Hampshire is successfully running a curbside single-stream program.

Dave Kirsch, member of NRRA's board of trustees and recycling manager in Swanzey, New Hampshire, shared his cost analysis of how single-stream recycling would affect his program. While the single-stream program would cut the town's operating costs by \$30,200, overall the program would cost the town \$19,100, partly in lost revenue from not selling the recyclables at a higher price.

In addition to current single-stream recycling programs, NRRA also offers several other options that may work for

members, including a Consolidation Program and a Dual-Stream Recycling Program. The Consolidation Program bundles small quantities of processed recyclables from multiple municipalities to bring the goods to one central location. This reduces storage requirements for members and obtains maximum revenue by shipping the largest loads possible.

NRRA has successfully completed five pilot consolidation runs of OCC (cardboard), aluminum cans and steel cans. Twenty-five different communities participated and helped NRRA refine the program to better serve each municipality. This allowed NRRA members to capture high market pricing, as well as achieve full and heavier loads. For example, members who participated recently received \$.18 more per pound for aluminum cans and \$130 a gross ton more for steel cans by consolidation.

The Dual-Stream Recycling Program is an alternative avenue as well. NRRA has offered this program since 2004 and residents sort the recyclables into two bins: paper (cardboard, mixed paper, newspaper and junk mail) in one bin and commingled containers (plastics #1 - #7, aluminum and steel cans, jars and bottles) in the other bin. Thirty-eight members currently use this dual-stream program and many achieve tandem hauls on a regular basis. This program brings revenue to members based on weights and markets.

NRRA member pricing for July 2008 was between \$75 and \$80 a ton for paper and between \$37 and \$20 a ton for commingled containers.

Settlement reached on Summit, Illinois, hazardous waste cleanup

The United States Environmental Protection Agency (EPA) Region 5 and the United States Department of Justice announced a \$2,055,373 settlement for cleanup costs at the former IWI site, located in Summit, Illinois. A group of 23 companies will reimburse the government for cleanup work completed in October 2003.

The late Glenn Wellman operated four companies at the 1.7-acre site from the late 1960s until the late 1990s. The businesses manufactured, cleaned and repaired stainless steel totes designed to

store up to 600 gallons of liquid - typically flammable or corrosive materials such as adhesives, inks, oil and paint. The property was abandoned in 1999.

A nine-month cleanup effort by a Chicago-based, EPA Superfund team resulted in the safe disposal of 683 tons of contaminated soil, 568 tons of hazardous sludges, 568 drums and 52,300 gallons of hazardous liquids from a railroad tank car, sumps and totes at the site. The remaining structures on the property were razed.

Recycling investments provide \$5 million to 323 communities

Pennsylvania continues to support recycling initiatives

Pennsylvania Governor Edward G. Rendell announced an investment of \$5 million to help more than 320 municipalities continue and expand local recycling programs that are creating new revenue streams in the face of higher energy costs.

"Record-high fuel and energy costs are challenging local governments, businesses and families all across our state," said Governor Rendell. "These grants will help local communities defray those higher costs while continuing to expand their recycling collections, and in some cases earn increased revenues from these valuable commodities."

The high costs of energy and fuel are straining budgets for many recycling programs, but some communities are finding opportunities to offset costs and increase revenues by expanding recycling collections.

With the price of petroleum near record highs, commodity markets for recyclable paper and plastics are expanding because prices for recovered materials are increasingly attractive compared to virgin materials. Communities that contract to sell the recyclable materials they collect benefit by increasing revenues and avoiding the costs to dispose of the materials.

Pennsylvania is home to more than 3,200 recycling and reuse businesses and organizations that generate more than \$18 billion in gross annual sales and provide paychecks totaling \$2.9 billion to more than 81,000 employees. Addi-

tionally, these businesses add more than \$305 million in taxes to the state treasury.

Pennsylvanians divert five million tons of recyclables from municipal waste each year, which benefits the commonwealth by:

- Saving more than 95 trillion BTU of energy, or an amount equivalent to the output of three large coal-fired power plants;

- Saving consumers and industries more than \$250 million in disposal costs and providing businesses with \$550 million worth of materials;

- Reduce carbon dioxide emissions by an equivalent of more than 2.5 million metric tons, which is like offsetting the emissions from 1.7 million cars and light trucks.

Recycling performance grants reward communities based on the amount of recyclable materials collected. Larger collection amounts mean larger grants for the recycling programs - and more materials for manufacturers.

The grants awarded reflect 2006 collections numbers.

DEP has approved 323 of the 779 performance grant applications received for calendar year 2006 recycling. The remaining applications are being reviewed and additional grant awards may be announced in the coming months.

For more information, visit www.depweb.state.pa.us, keyword: Recycling Grants.



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Single-stream

Continued from Page 1

collection days for recyclables, one for mixed paper and another for bottles and cans.

More municipalities, like Baltimore, are choosing single-stream over dual-stream recycling, which requires sorting of recyclable materials before collection, because single-stream not only increases recycling rates, it also reduces costs, says Jeremy O'Brien, director of applied research at the Solid Waste Association of North America.

"Conversion to single-stream allows the reduction of collection frequency, which can substantially reduce fuel usage" for the haulers O'Brien says, adding that the number of single-stream facilities has increased across the country from five in 1995 to 160 in 2006, with more than one municipality, generally, using each single-stream facility.

There are drawbacks to single-stream recycling. Using one collection truck to pick up all the recycled material has the potential to contaminate the waste stream. One of the most frequently cited examples is recycled glass contaminating recycled paper.

The quantity of the material remaining after the single-stream process, referred to as residuals, averages 7 to 10 percent, while residuals from the dual-stream method averages around 2 to 5 percent, says LaTisha Petteway, a

spokesperson with the United States Environmental Protection Agency (EPA) in Washington, D.C.

But single-stream recycling often increases the recycled pounds-per-household, Petteway says, outweighing potential drawbacks. Petteway cites recycling rates in Denver, where a single-stream program introduced in 2005 yielded a 21 percent increase.

The environmental agency does not track the number of cities currently using single-stream recycling versus dual-stream recycling, but Petteway says anecdotal evidence indicates that the single-stream method is increasing in popularity.

Major metropolitan cities that have already started single-stream collection, or are planning to launch single-stream programs, include Chicago, Dallas, and Denver.

Philadelphia plans to expand its single-stream collection to once a week after introducing bi-weekly collection citywide in 2006. Since then, recycling has increased more than 35 percent, says Clarena Tolson, streets commissioner in Philadelphia.

The city collected 50,000 tons of recyclable material in 2007, the highest quantity collected in the history of the city's recycling program and Philadelphia earned more than \$1.9 million from the recyclable materials, achieving another record for the city.

"Single-stream recycling is a win-win situation," Tolson says.

Philadelphia began collecting plastics and cardboard when it started single-

stream recycling. Under the former system, the city did not collect plastics or cardboard because it was too inefficient, Tolson says. "Plastics and cardboard would fill the trucks quickly, causing numerous trips to the processing facility" and increasing collection costs.

PHOTO COURTESY OF THE CITY OF PHILADELPHIA



Philadelphia has distributed postcards to its residents to educate them about the city's single-stream program.

The only drawback of single-stream recycling for Philadelphia is higher contamination rates, lowering the amount of revenue earned for the recycled material, Tolson says. Glass particles and other debris often get mixed in with the paper.

"This increases the costs to process and decreases the revenue to the city," Tolson says, adding that the city is able to make up for the loss with increased tonnage.

Across the country in Los Angeles, single-stream recycling is nothing new. The city completed its rollout of single-stream in 1998. It has increased recycling by more than 50 percent, says Karen Coca, assistant division manager of the

city's sanitation bureau. The city also achieved a 25 percent reduction in collection staffing.

Los Angeles is now in the process of expanding single-stream service to the Los Angeles Unified School District and to all multi-family buildings across the city.

It is not just big metropolitan areas like Los Angeles that have embraced single-stream recycling. Redding, California, with a population of approximately 84,600, is an example of a smaller city in the Golden State that provides single-stream collection.

Gret Horisk, public works supervisor for the city, says Redding tried three different curbside programs before eventually switching to single-stream recycling.

"Single-stream works the best and is the most cost effective," Horisk says. "Sorting at the curb was time consuming," requiring manual labor, leading to more worker compensation claims, Horisk says. Single-stream collection is automated.

Out of 415 cities and counties that report to the California Integrated Waste Management Board, the state agency designated to oversee the state's waste, 392 have some kind of curbside program, says Kyle Pogue, a manager in Sacramento.

While the agency does not keep track of the number of single-stream versus dual-stream programs, Pogue says single-stream collection is increasing in California.

"There has been a fairly significant trend toward single-stream," Pogue says.

Pogue says cities and counties are turning to single-stream recycling because it is more popular with residents who no longer need to separate their recyclables. Pogue says recycling rates after switching increase anywhere from 50 to 100 percent.

Single-stream recycling also expands the acceptable material that is collected, says Steve SoRelle, another manager with the state agency. "Now there are more mixed papers and different plastics allowed. It makes it easier on people," SoRelle says.

Before switching to single-stream recycling, however, municipalities need to have an understanding of what the community's processing options are, says Scott Pasternak, a consultant with R.W. Beck, Inc. in Austin. While some cities process the material with city-owned facilities, others contract out the process to single-stream facilities.

Not every municipality has the needed equipment for single-stream recycling. "Therein lies a disadvantage of single-stream recycling," Pasternak says. "Cities need to have more sophisticated equipment, often meaning more expensive equipment."

An eagle was sitting on a tree resting, doing nothing.

A small rabbit saw the eagle and asked him, "Can I also sit like you and do nothing?"

The eagle answered, "Sure, why not?" So, the rabbit sat on the ground below the eagle and rested. All of a sudden, a fox appeared, jumped on the rabbit and ate it.

Moral of the story: To be sitting and doing nothing, you must be sitting very, very high up.

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Senate rejects tax on California grocery bags

A bill which would have placed a twenty-five cent tax on every plastic bag provided by a grocery store in California failed to pass the Senate Appropriations Committee. The Progressive Bag Affiliates of the American Chemistry Council (PBA) and many statewide consumer groups opposed AB 2058 because it would have imposed a \$4.75 billion tax on grocery shoppers.

The proposed twenty-five-cent per-bag tax could have added upwards of \$400 a year to the average family's grocery bill. Many of California's families are already struggling with rapidly rising food and energy prices, and this tax would have inevitably hurt the people who can least afford it, especially those shoppers who walk or take public transportation to the grocery store.

"There are better ways to protect the environment and reduce litter without punishing consumers, including further expansion of efforts to recycle, reduce and reuse plastic bags. Some programs are already underway, including one created by AB 2449, a law that went into effect last year and mandates

plastic bag recycling at larger grocery stores and certain retailers throughout the state," said Shari Jackson, Director of the PBA

Jackson noted that plastic bags are fully recyclable, and that plastic bag recycling is on the rise, with 812 million pounds of plastic bags and film recycled nationally in 2006 - up 24 percent in a single year. Results from California's new recycling efforts are just starting to come in, and PBA believes these programs should be given a chance to succeed before additional tax burdens are piled on California consumers.

The following items can be included wherever plastic bags are collected for recycling:

- Plastic grocery and retail bags;
- Plastic newspaper bags;
- Dry cleaning bags (remove paper and hangers);
- Bread bags;
- Plastic wrap from products like paper towels and toilet paper; and
- All bags labeled with recycling codes #2 (HDPE) or #4 (LLDPE).

A famous football coach was on vacation with his family. When they walked into a movie theater and sat down, the handful of people there applauded. He thought to himself, "I can't believe it.

People recognize me all the way up here."

Then a man came over and said, "Thanks! The movie won't run unless we have ten paying people or more."

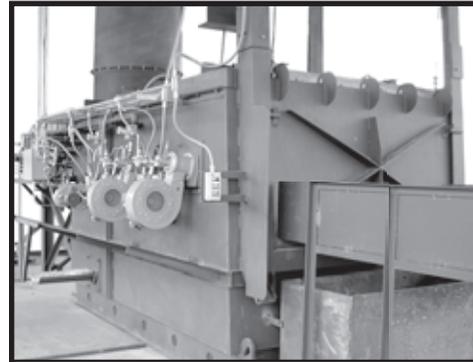
Two-year project on plug-in hybrid technology created

The United States Advanced Battery Consortium (USABC), with funding from the U.S. Department of Energy, has awarded Johnson Controls-Saft a contract valued at \$8.2 million. The contract will focus on the development of lithium-ion battery systems for plug-in hybrid electric vehicles (PHEVs) and over the course of two years will seek to validate the commercial feasibility of lithium-ion technology for mass market PHEVs.

"We are working on the development of the complete PHEV system, which includes high energy capacity cells, battery management electronics, control software and an efficient thermal management system, all optimally packaged for safety and efficient integration into the vehicle," said Mary Ann Wright, who leads the Johnson Controls-Saft joint venture and is vice president and general manager for Johnson Controls hybrid battery business.

"Specifically, key goals for this PHEV contract are to optimize cell and battery system design for 10-mile and 40-mile electric range vehicles."

USABC, whose members are Chrysler LLC, Ford Motor Company and General Motors Corporation, awarded Johnson Controls-Saft a similar contract in 2006 focused on lithium-ion battery systems for hybrid electric vehicles.



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Superfund cleanups not worth the cost, according to new MIT study

The cost of the federal Superfund program isn't bringing financial returns to homeowners living near the cleaned-up toxic sites, according to new research by Michael Greenstone, the 3M Professor of Environmental Economics at MIT. In a paper published in the August issue of the *Quarterly Journal of Economics*, Greenstone and a colleague analyzed housing markets affected by Superfund, a federal government program that cleans up the largest and most dangerous hazardous waste sites in the United States. Greenstone compared the housing prices of homes surrounding Superfund sites to those surrounding sites that narrowly missed qualifying for Superfund remediation.

Since Superfund's inception in 1980, almost 1,600 sites have been identified and made eligible for federally funded cleanups. Cleanup activities have been concluded at approximately two-thirds of these sites at an average cost of more than \$43 million. The expected cost to clean up the remaining sites is an additional \$30 billion.

Greenstone found that the expensive cleanups failed to increase house prices or rental rates near Superfund sites in comparison with neighborhoods surrounding toxic sites where Superfund

cleanups did not take place. In addition, the population of the neighborhoods and rate of new home construction remained at pre-cleanup levels.

The paper also notes that the average cleanup takes 12-13 years to complete. "The lengthy interventions are disruptive and very expensive," Greenstone said. "The housing market's clear message is that the cleanups are not worth it to the people living near these sites."

Greenstone is now investigating whether there are health benefits from these cleanups, as his preliminary results failed to find reductions in the rates of infant mortality and birth defects or increases in birth weight.

"We are facing a wide range of environmental problems, including the severe threats to our well-being posed by climate change and water and air pollution," Greenstone said. "In this time of limited budgets, society should focus its resources on solving problems that improve people's lives."

This work was funded in part by the Center for Energy and Environmental Policy Research at MIT. Greenstone's co-author, Justin Gallagher, is a graduate student at UC Berkeley.

—Source: MIT - Massachusetts Institute of Technology

Stolen recyclables

Continued from Page 4

The theft of metal appears to be the acts of individuals. Among stoves and other household appliances, refrigerators and air-conditioners are hot items. Prior to collection of refrigerators and air-conditioners, residents are asked to place these items on the curb. The next step has DSNY personnel from its CFC removal unit remove the CFCs to meet environmental standards. This is a free service and when the CFCs are removed, a tag is placed on the item that allows recycling collection staff to take them, along with other metal items.

"Our problem is the release of Freon into the air," says D'Angelo. "It causes an environmental problem and a manpower problem in terms of the people we send to remove the CFCs and to collect the appliances. Forty-eight percent of our 311 pick-up notifications for refrigerators and air-conditioners are missing when our units go out to pick them up."

The thieves, in box trucks and vans, patrol the streets and quickly grab the paper and appliances.

"The paper goes phenomenally fast – you have to see it," says D'Angelo. "The metal is a little slower because it is a little harder, heavier and dangerous in the loading. They can chuck an air-conditioner or refrigerator in 1.5 minutes."

The arrests are having an effect as word-of-mouth is spreading about the cost of being caught.

"Paper thefts have been dormant for about four months since we started hitting hard, but it has started to go up again," says D'Angelo. "We are now concentrating more on metal. We are getting an increase in the amount of impounds. It is a similar problem worldwide. You have manhole covers, copper and construction material being stolen."

Since October 2007, the city has confiscated about 224 vehicles. Those arrested pass through a civil court. D'Angelo and his officers have also issued nearly 70 notices of violation to owners or operators that were stealing recyclables in front of commercial premises.

The increased fines are having an effect. "When it was \$100," says D'Angelo, "people would be nice to us, give us their ID and \$100. Now that the fine is \$2,000, they are thinking twice about it, but we are also catching repeat offenders."

The DSNY is fully aware that the criminals know the routes and pick-up times for the recycling collections, information that is available on its website that informs residents when they should put out their recyclables.

But this also works in favor of the police, who say that thefts are presently more prevalent in Brooklyn, the Bronx and Queens.

"The bait for us is empty vans – mostly older vans with two people inside," says D'Angelo. "We have a system. We follow people around and if we see a van loaded with metal, we stop them and usually it works out for us. We set up spots for surveillance situations, based on the collection lists, and we've been successful."

Residents are urged to contact the DSNY by calling 311 if they see what they believe to be recyclable thefts. DSNY police do patrol recycling collection routes prior to the start of collection and their presence has helped to reduce thefts.

Working with the scrap dealers or transfer stations as they are known in NYC, is the responsibility of the Business Integrity Commission (BIC), which has pursued investigations to see if the people bringing in metal or paper have the proper conveyance permits. The BIC is responsible for regulating private waste haulers.

In NYC, there are several types of transfer stations – non-putrescable stations which handle construction and demolition debris; fill material stations that handle dirt, rock and similar materials; putrescable stations that handle waste consistent with household garbage; and transfer stations that are regulated by the State of New York that handle paper and metal.

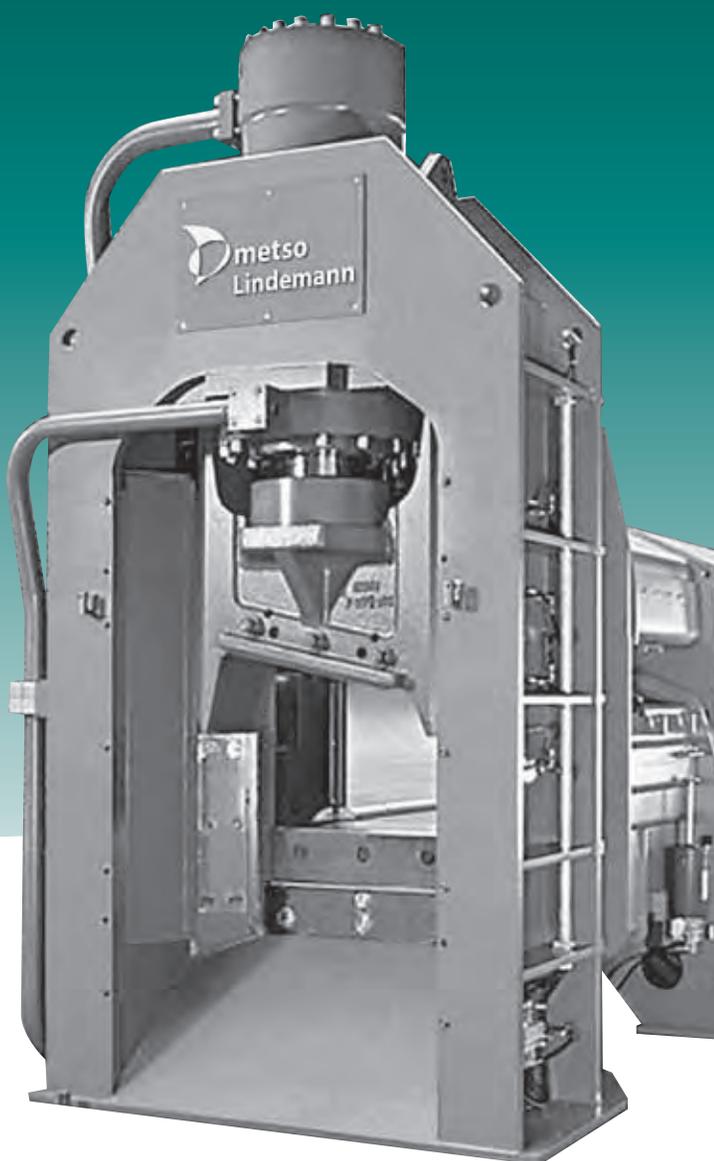
It was recently reported that 52 DSNY workers were using their own department's vehicles to illegally collect metal recyclables placed at the curb by residents. The material was then sold to Pine Scrap Metal, Inc.

The DSNY took action from the start. "Last year," says Lipani, "the department had suspicions about Sanitation workers taking bulk metals and selling it to scrap yards. We forwarded this information to the NYC Department of Investigation, who just did the investigation. Just recently, the city's Conflict of Interest Board announced that the Sanitation workers involved were suspended without pay anywhere from 3 to 30 days."

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Greenstar to build large recycling facility in Texas

Houston-based Greenstar North America, a private processor of recyclables and a municipal recycler in Texas, announced that it has rebranded all Vista Fibers operations across Texas.

Greenstar acquired Dallas-based Vista Fibers and Mid America, Vista Fibers' previous parent company, in October 2007. Through this partnership, Greenstar now holds significant recycling operations in Dallas, Ft. Worth, Houston and San Antonio and employs more than 300 people across the state. In addition, Greenstar recently signed an agreement with the City of Austin to provide recycling processing services, which are scheduled to begin in October, 2008.

"The name switch will be largely transparent to our Texas customers," said Steve Ragiel, CEO of Greenstar North America.

Greenstar has experienced a dramatic rise in recycling rates across its Texas markets, particularly in San Antonio and Dallas. The sharp increase is a direct result of both cities implementing a single-stream collection system, as well as converting their existing 18-gallon (San Antonio) and blue bag (Dallas) collection system to 95 gallon carts. Single-stream processing lets participants put recyclables conveniently into one bin, allowing for more efficient collection of materials and a decrease in labor.

RiverQuest delivers marine hybrid vessel

Explorer, RiverQuest's newly constructed 90 foot, 150-passenger hybrid boat left Bayou La Batre, Alabama on August 3 and arrived into the Pittsburgh Pool of the Ohio River on August 13 after a 1,600 mile journey through nine states.

Explorer is a state-of-the-art education and research vessel that is designed to serve students and the public in the Pittsburgh region with transformative on board programs. The Explorer will be docked at their home port to begin a month of intensive preparation to take their first passengers onboard in the coming months after local United States Coast Guard inspections are completed.

Explorer is a global benchmark for greening the boating industry with one of the first commercial marine hybrid propulsion systems on earth.

Explorer, also one of the world's first green-engineered floating classrooms, marks a new era in marine design for environmental sustainability. RiverQuest instructors will teach about the multi-disciplinary subject through the wide variety of programs that the organization offers.

The psychology instructor had just finished a lecture on mental health and was giving an oral test.

Speaking specifically about manic depression, she asked, "How would you diagnose a patient who walks back and forth screaming at the top of his lungs one minute, then sits in a chair weeping uncontrollably the next?"

A young man in the rear raised his hand and answered, "A basketball coach?"

Greenstar has recorded dramatic increases of materials collected. San Antonio rates have increased as high as 200 percent over the previous collection approach in some areas. Dallas has experienced a more than 300 percent increase during the past 18 months of utilizing single-stream processing and 95 gallon carts.

While Texas has not traditionally been known for its recycling programs, Greenstar sees that perception shifting in

the near future. Ragiel added, "We have selected Texas to be our North American headquarters and believe that there is a significant amount of potential on the commercial and municipal side for growth in recycling. In fact, Greenstar has entered into an agreement to build one of the largest single-stream recycling plants in North America here in Texas."

The new plant will be among the largest, most automated single-stream

facilities in North America and the largest in Texas. It will have the capacity to process 20,000 tons per month at its 180,000 square foot facility, located on nine acres in San Antonio.

The facility is scheduled to open in first quarter of 2009. It will employ approximately 100 people and accept single-stream materials from other recycling programs across the Central and South Texas region.

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EQUIPMENT SPOTLIGHT

Sorting for single-stream recyclables

by Mark Henricks

Single-stream collection of materials promises to greatly increase participation rates for municipal recycling programs. Consumers have been shown to nearly double the amount of material they divert away from landfills and into recycling in communities where single-stream recycling programs have been initiated.

But commingling paper, glass, plastic, metals and other recyclables in a single curbside container also poses problems. While participation rates usually rise, so does the amount of waste generated by the recycling effort. Plus, the recycled material may not be as pure, which creates headaches for the glassmakers, paper plants and others who would reuse the materials.

One solution to the single-stream conundrum is effective sorting of recyclable materials. At National Recovery Technologies, Inc. (NRT) in Nashville, Tennessee, engineering manager John Thomsen says their Multi Sort IR and Multi Sort IR ES Combo and Spyder machines are the most likely to go into single-stream applications. "The main issue we confront is that containers, plastic bottles and other similar sized objects end up in a stream that needs to be sorted by polymer and other characteristics, says Thomsen." "The part of that that we do is to take out various polymers."

Sorting PET is usually done first with the Multi Sort IR using transmitted infrared. "We consider that a more reliable detection method. However, its use is limited to the transparent and translucent objects," notes Thomsen. In a multi-stage process, materials are then immediately separated into transparent and opaque objects. The Spyder can be used for further separation. "Instead of separating the objects by color or transparency, it is looking at the actual polymers," says Thomsen. For each detection system, controlled compressed air jets are used to physically separate materials from the rest of the stream.

NRT has long sold sorting equipment to companies reclaiming mixed bales of recycling materials, and now is seeing good growth from municipal and other mixed recycling facilities. "Lately we've been very busy," Thomsen says. "This has always been a cyclical business driven by the value of the commodities being processed and public interest and policy in recycling. Both of those are currently driving an increase in this kind of business."

At General Kinematics in Crystal Lake, Illinois, market director Bill Guptail says the company's vibratory finger screeners and destoner classifiers are the main General Kinematics products sold for single-stream sorting applications. Finger screeners size items for better downstream recovery, while destoner classifiers are used to separate glass and other heavy items.

"In a smaller facility where they're going to run different items such as commercial waste, we'll get a high percentage of old cardboard cartons (OCC) to go over the top of the screen and a high percentage of newspapers to go through," he says. "If it's traditional single-stream, where there's no OCC, we'll do a different size and get newspaper to go over the top of the screen and rigid commingled materials to go through."

Typically, materials are sent to optical sorters for further separation after General Kinematics' vibratory screeners do some of the heavy lifting. "That improves the ability of the downstream equipment," Guptail says of multi-step sorting that starts with General Kinematics equipment.

Glass is a special problem in single-stream, and one addressed by Andela Products Ltd. in Richfield Springs, New York. Andela's GP1 & GP2 glass pulverizers plus trammels reduce glass in mixed streams of recycling materials to 3/8th inch or less fragments and also removes sharp edges. Then the glass is easier to separate using simple screens. After dropping out of the stream, the mixed glass is turned into useful products such as roadbed, cover, mulch, pipe bedding as well as sandblasting & water filtration media.

Cynthia Andela, president and chief operating officer, says, "In single-stream recycling, the glass is a lot of times forgotten. It's hard to get it out of the stream because it's all broken and mixed in with paper and other things. We can put our equipment in to drive the glass to smaller sizes, all the way down to 3/8th inch size and it doesn't have any sharp edges. Then we can screen it out. You have simple mechanical separation."

Andela's system capacities vary from 1 ton per hour to 20 tons per hour. All comprise three major steps. First, there is a hopper where material enters and is metered. Next, a pulverizer breaks down glass and rounds edges. Finally, there is a screening unit where glass falls through holes and out of the material stream. Conveyors tie it all together. Andela's pulverizer breaks the glass only while leaving most other materials such as paper and plastic alone. "We put a magnet in the front of our systems to pull out the major steel. Soft cans and things like that aren't a problem," Andela says.

Andela's business has changed mostly in the way recycling materials are being handled. "There's been a shift over the last four or five years to single-stream recycling because you have a higher recycling rate at

the curb," she says. "But it also means the material is more mixed and the systems to separate it become more expensive and more involved. It's brought to the forefront the necessity of providing for value-added products." With that in mind, she spends much of her time developing and educating recyclers about viable applications for mixed glass recovered from single-stream recycling systems.

At Karl W. Schmidt & Associates Inc. in Commerce City, Colorado, national sales manager Jeffrey Van Galder says the company integrates sorting equipment from several European manufacturers into the conveyor belt systems it makes for single-stream applications. Schmidt offers sorters based on technologies including magnetic, eddy current, disk screens, ballistic separators and optical.



Andela Products Ltd.



Magnetic Separation Systems, Inc.



National Recovery Technologies, Inc.

Ballistic separators appeal to customers struggling with disk separators that experienced frequent downtime due to wire, plastic ties and plastic bags wrapping around the disks and axles. "Ballistic separation applies high frequency agitation to the material through the use of paddles rather than disks," he explains. "We wanted to have an option for people that were frustrated with disk screens."

One of Schmidt's most active markets consists of smaller single-stream sorting centers processing up to 200 tons a day, Van Galder says. He looks for growth to continue. "There's going to be an ongoing high demand for these materials and it comes back to collection and making it easy for the material to enter the recycling stream," he says. "I think single-stream is going to keep on rolling."

Manufacturer List

Andela Products Ltd.

John Andela
315-858-0055
www.andelaproducts.com

Austin AI, Inc.

Kristine Keily
512-837-9400
www.austinaai.com

Eriez Magnetics

Al Gedgudas
800-345-4946
www.eriez.com

General Kinematics

Bill Guptail
815-455-3222
www.generalkinematics.com

Green Machine Sales

John Green
800-639-6306
www.greenmachinesales.com

Hustler Conveyor Company

Dave Guyton
636-441-8600
www.hustler-conveyor.com

Karl W. Schmidt & Associates, Inc.

Jeffrey B. Van Galder
303-287-7400
www.karlschmidt.com

Magnetic Separation Systems, Inc.

Felix Hottenstein
615-781-2669
www.magesp.com

Marathon Equipment

Renee Boman
800-269-7237
www.marathonequipment.com

National Recovery Technologies, Inc.

John Thomsen
800-467-4678
www.nrt-inc.com

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www.usaconveyor.com



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Recycling farm waste materials: from dead animals to scrap metal

by Irwin Rapoport

Recycling on the farm, be it a family-run operation or a corporate enterprise, has always been a reality in terms of protection of the land and to maximize economic output.

While nearly 70 percent of the State of Kansas' population lives in urban areas, the bulk of the state's revenues are generated by agriculture, primarily through wheat and corn production, as well as the raising of cattle and swine and dairy production. These various agricultural sectors generate various types of waste that are recycled and are subject to a variety of regulations and requirements.

With the growth in the production of ethanol for fuel, the crops, as well as the leftover vegetation, is sought and purchased by the ethanol industry. The agricultural debris is also used by farmers as ground cover, as well as used by manufacturers as an ingredient for various products.

Dealing with the carcasses of slaughtered animals (including those that died naturally) and the manure that those animals generated, is of prime importance to various state agencies and to the farmers themselves. The key is to prevent these materials from leaching into the water table and contaminating the soil.

"In Kansas there are several things that help," says Ken Powell, an environ-

mental scientist with the Kansas Department of Health and Environment's Bureau of Waste Management. "For carcasses, we still have a good rendering system. There are several renderers that will take the dead animals as long as they are in good shape. The system probably takes 90 percent plus of the dead animals.

"For the other 10 percent, some go for composting," he adds. "We like the composting part of it, especially for swine operations. A lot of them go into composting and they can do it on the site, and real fast. If it is done right, it is very environmentally sound."

Regulation KAR-28-29-25D regulates the composting of dead animals, while KAR-28-29-25C regulates the composting of manure. There are also regulations regarding composting of other organic materials – what can be used, how it is done and where the operations can be sited.



—Ken Powell

Every February, Powell organizes and leads two regional training sessions, accompanied by composting experts, that address farmers to provide them with information on how to compost correctly.



A large amount of old machinery is stored on farms and is now being sought for recycling due to the current high prices for scrap metal.

"We found that strategy to be effective and even more effective than having regulations in place," he says. "When you train them how to do it right, you end up with a better operation. We make sure that it gets handled correctly from an environmental standpoint."

Powell, whose specialization is composting, also does some on-site visits to individual farms to help get composting operations in place.

In 2007, compost-generated leaves and grass and various yard wastes – collected in cities and counties – reached the 80,000 tons plus level. Records are not kept for compost generated by the agricultural sector.

"I just know from the farms that I dealt with that we are probably over 80,000 tons of manure and dead animal composting," says Powell, who notes that every ton of compost generated nat-

urally by recycling reduces the amount of chemically and fuel-based fertilizers that are imported into the state.

This also reduces green house gas emissions in terms of production of fertilizers and the transportation of those fertilizers to farms.

Rendering ensures that carcasses are recycling and 90 percent of the material generated by renderers is used to create meat and bone meal, which is used for livestock feed and goes into dog and cat food products.

"We still sell a lot of this feed to overseas markets, with much of it going into poultry and swine feeding," says Powell. "It's a high quality protein."

The blood is converted to blood meal, which is used for fertilizer production.

Renderers generally collect the carcasses (dead, weak or old animals) from

Continued on Page 12

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ON TOPIC — Q & A

by Irwin Rapoport

Recycling in Seattle

The economics of not recycling caught up with Seattle in the late 1980s. They were then faced with a problem that needed to be resolved quickly as local landfills would soon close, the citizens and politicians in the West Coast city determined that quick action was needed.

This led to the start of Seattle's solid waste diversion recycling collection programs in 1989 - programs that are considered to be some of the most effective in the nation.

To learn more about what Seattle has done and is planning for the future, American Recycler spoke with Chuck Clarke, the director of Seattle Public Utilities.



—Chuck Clarke

If a city or county were willing to make the effort and allocate the necessary resources based on best practices from Seattle and other cities, how long would it take to establish an aggressive diversion and recycling program?

Clarke: Seattle increased its recycling diversion by nearly 150 percent within the first five years of instituting its residential curbside recycling program.

Of America's cities and urban centers with populations of 500,000 plus, how many have matched Seattle's achievements and what do you believe is preventing those who have not done so, from establishing similar programs?

Clarke: Recycling has been a success story for many American cities, including Portland and San Francisco. They've done it by changing the way they think of garbage, not as a necessary evil and municipal revenue source, but literally as a waste on the environment, a waste on their community and a waste of resources.

Participation by the residential and non-residential sectors is essential to the success of recycling and diversion programs. In terms of an education program, what are the necessary elements that a municipality must implement to get both sectors on board?

Clarke: Businesses and residents need clear information on what to recycle, how

to recycle, and why recycling is important both economically and environmentally. This information should be presented frequently.

What are the necessary "carrots" that a municipality must employ to get the residents and businesses to actively participate in diversion and recycling programs?

Clarke: Seattle offers a "pay as you throw" garbage can system that serves as a terrific incentive for businesses and residents to recycle. The bigger the can you need for your garbage, the more you pay, which is a simple way to encourage recycling.

For those few who don't recycle, the city has prohibited recyclables from the garbage. Apartments and businesses face fines if they repeatedly don't recycle, and households risk not having their garbage picked up if they don't recycle.

Five years ago, Seattle banned citizens from placing recyclables in their trash. Has this policy been accepted by the majority of people? Is the city still issuing fines for non-compliance?

Clarke: The vast majority of businesses and residents support our recycling ordinance, with more than a 98 percent recycling compliance rate and a 10 percent increase in diversion since the ordinance passed in 2003. Last year, less than 20 fines were levied against apartments and businesses for not recycling.

Reward program nearly doubles recycling rate

RecycleBank and AAA Recycling and Trash Removal Services of Fairfax, Virginia, announced that residential recycling rates have increased 90 percent after the implementation of an innovative program designed to encourage more recycling. The increase in recycling is tied to RecycleBank, a new program offering from AAA to their customers that uses rewards to motivate people to recycle. After launching the program on June 2, 2008, households have nearly doubled the amount of waste they recycle.

RecycleBank motivates households and communities to recycle by measuring the amount of recyclables from each household and then converting the weight into RecycleBank points. These points can be viewed and redeemed at www.recyclebank.com with over 450 national and local RecycleBank reward partners.

"We knew that our customers could do more recycling and RecycleBank provided the motivation," said Brad Baty, general manager of AAA Recycling and Trash Removal Services. "RecycleBank is a great way for us to improve environmental efforts by raising curbside recycling rates. RecycleBank's program presented AAA with the opportunity to be the channel through which the increased participation is realized."

Participating households redeem their RecycleBank points with national

RecycleBank reward partners such as Coca-Cola, Kraft Foods, Green Mountain Coffee, and CVS/pharmacy, as well as with local Northern Virginia retailers such as Shoppers, Anita's, Paisano's Pizza, and Broadway Gallery. Many local and national retailers recognize the value of partnering with an environmentally-friendly company such as RecycleBank. Reward partners gain exposure in the marketplace, which leads to customer loyalty and repeat business. Additionally, households recognize the value of shopping with retailers that believe in the importance of environmental initiatives and community.

"The RecycleBank program has been absolutely fantastic for our community and was frankly long overdue", says Peter Brownell, RecycleBank member and AAA customer. "We were conscientious before, but now that we have the program we've increased our household recycling tremendously and use our rewards points for useful, everyday purchases."

"As RecycleBank continues to expand across the country, our vision to preserve the environment by dramatically increasing household recycling rates becomes more and more attainable," said Ron Gonen, co-founder and CEO of RecycleBank.

With the program's immediate success, AAA is considering the implementation of RecycleBank in other markets.

Farm waste

Continued from Page 11

farms and when processed, are placed in a pressure cooker that is employed to reclaim the protein and other materials.

Most of the large meat packing plants also operate their own rendering operations. Smaller packing plants, of which there are many, send the bones, offal and hides to rendering plants. The hides, depending on how they are treated, are valuable and many of them are shipped overseas.

Powell stresses that farmers and the agricultural community in general, have always practiced recycling – using what they can to maximize revenues in processes and procedures that make economic sense.

"That is where we end up looking at composting," he says. "We do have on-site burial of animals, but we don't like to see that. It's a pretty small number and simply done because it is the most economical measure."

The KDHE's Bureau of Water is behind much of the regulations regarding the use of manure on fields and how composting is done and where such operations can be located. The regulations are designed to ensure that the spraying of manure is based on the principle that the plants consume whatever is sprayed (based on agronomic rates) and that there are no leftover materials that could potentially contaminate the water table by seeping into the water table or

flow into open pipes, streams or rivers.

"Manure has nitrate and if you put too much nitrate on, then you end up with your wells being contaminated, blue baby syndrome and other health hazards that can effect seniors and adults," says Powell.

Due to the increasing price of scrap metal, scrap dealers are now actively seeking material from rural states such as Kansas, seeking old machinery that can be found on many farms.

"There is a tremendous amount of old machinery that gets generated on these farms and now that scrap iron prices are going up," says Powell, "I'm seeing a lot of it disappear. That's a good thing. It gets it out of the pastures. My folks, who have a farm, have decades of old machinery and are actually talking about having someone come in and clean it all up."

He adds that this material should be recycled and that more and more scrap dealers are visiting farm country in search of metal.

Rodney Ferguson, public service executive of the KDHE's Waste Reduction, Public Education, and Grants Unit, appreciates the efforts of farmers to recycle their agricultural waste.

"It is often said that the farmer is the best steward of the land," he says. "There is a quality there that has been passed from generation to generation that you have to take care of the land. That would include off-farm activities such as recycling household materials."

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Seattle stands strong on recycling

by Irwin Rapoport

The City of Seattle is very close to achieving its 60 percent waste target by 2012 and is looking to achieve a 70 percent diversion rate by 2025. The success of the program is based on a combination of state and municipal legislation, public education and an environmental awareness by the city's 530,000 people.

The 60 percent diversion rate goal was established in 1988 and the city's curbside recycling program began one year later. Prior to that, there were some private recycling programs in place.

The desire to divert solid waste was the result of the closure of in-town landfills in the late 1980s.

"All the local options to divert our garbage collection to other landfills were really expensive," says Brett Stav, senior planning and development for the Seattle Public Utilities. "We ended up doing a long-haul contract to Arlington, Oregon (a landfill operated by Waste Management), which is 200 miles away and in the process of deciding that, the community and local officials made recycling diversion a priority."

State legislation does not give local governments the authority to regulate commercial recycling.

"For the most part," says George Sidles, business area manager for Recycling and Solid Waste Collection, Processing and Disposal, "we've had to rely on the economics of scale because we provide exclusive residential recycling services. Initially, we let the private sector handle the commercial sector and a lot of businesses began voluntary recycling programs. Over time, we created a small-scale commercial recycling program that was open to small businesses.

"In the last big range of program updates in November 2003," he adds, "we made that same service available to any commercial recyclers with the 60 percent program. It's a small-scale program, with two 96-gallon recycling carts."

Currently, the residential diversion rate is 55 percent, with the commercial rate at 53 percent. The recycling program focus on paper, cardboard, metals, yard waste, container glass and plastics.

Household hazardous waste is also targeted via a drop-off program where residents can bring materials that will either be recycled or disposed of properly. These materials include paint, chemicals, batteries, medical supplies and e-waste.

The majority of Seattle's residential solid waste and recycling collection – solid waste once a week and recycling every two weeks, is done through private contractors.

"The city operates two transfer waste transfer stations for the solid waste and the contractors also transfer a portion of our organics and green waste," says Sidles. "About 30 percent of our transfer system is operated by the private sector."

The current system has Waste Management (WM) and Allied Disposal (AD) collect solid waste, recyclables and yard waste, with AD processing the recyclables. Cedar Groves Composting processes the organics via composting.

Sidles says the city is looking at the possibility of bringing in technology to derive solid fuels, gases and water from the organics.

"There are some interesting things coming down the pipe with anaerobic digestion and other technologies," he says. "We are not there yet."

In 2009, the system will have WM and CleanScapes, a local start-up company (See "A Closer Look", page 14), handle the collection aspect, with Allied Disposal continuing to process the recyclables and Cedar Groves responsible for the organics.

"Competition in the market place is a good thing," says Sidles.

Collected recyclables are sold by the processor. The contract with the city does not allow recyclables to be landfilled, but it does allow material that should not have been included in recycling to be landfilled – a cost that Seattle covers. The city periodically surveys the recyclables stream to determine the contamination rate.

"Our contamination rate is about 2 percent and on the other end is the residuals, the material that the processor cannot market – about 5 percent" says Sidles. "The processor pays those landfill costs."

Seattle Mayor Greg Nickels often points out to his citizens how much their recycling efforts save the city money. Solid waste and recycling collection comes under one bill.

"Since 1994, we had only one 6 percent solid waste collection increase," says Stav. "We are planning a rate increase with the new collection changes in 2009. The increasing price of oil is a factor, but the amount people have recycled has managed to keep costs down overall. It has been very beneficial for them in the long term, economically and environmentally. Inflation has caught up with the market."

The city's ongoing recycling education campaign has been a success and it's a program that translates into the investment of time and money.

"Seattle is a leader in recycling, along with San Francisco, California and Portland, Oregon," says Stav. "We continually educate our residents. They get communications from us at least five times per year. We send them a collection calendar every year and four newsletters, as well as bi-monthly invoices."

There is also a staff member who can be contacted by phone or e-mail, whose job is to provide information about recycling to residents.

As well, an advisory board made up of citizens provides input to the city on its solid waste policy. These communication channels have led to policy changes.



Seattle, Washington is currently focused on achieving a 70 percent diversion rate.

"We got some good feedback about co-mingling glass with the rest of our recyclables," says Stav. "Our customers were very favorable about the amount of time that would save them and it had a significant role in the decision to make that change. We also got some feedback expressing a lot of interest in electronics collection and the mayor is going to be requesting that service as part of the new package of services moving forward in the next year."

Cardboard and yard waste is banned from commercial garbage. Sidles says that the commercial sector is making efforts to improve recycling.

"Many of them have taken that law and run with it, setting up recycling programs for their businesses," he says. "A lot of the emphasis on the recycling ethic has been targeting the residents and as they go to work, they influence their work place."

The city has a recycling-on-the-go program for aluminum cans and bottles, which has bins placed along sidewalks, and it recently started a pilot project to place recycling bins in parks and sports fields.

The city also encourages recycling by setting a good example. "All the city departments are required to recycle and we also have a Paper Cut initiative where all departments have been mandated to cut back their paper usage by 30 percent," says Stav. "Since the mandate came out in 2005, departments have cut back paper usage by 20 percent. It saves us a lot of money and it really sets an example for other businesses and residents to show that they could do it as well."

Back in 2004, city regulations forbid the placing of all recyclables in solid waste for the residential sectors. This includes apartment buildings and condominium complexes.

"They are treated the same as residences," says Stav. "They receive all the educational material that we send to households. We also have the Friends of Recycling program where we provide a financial incentive to apartment property managers to participate in educating their tenants about recycling."

The program provides a one-time discount of \$100 on an apartment building garbage bill.

For the moment, the city is concentrating upon reaching the 70 percent diversion rate, but it does have plans to find ways to use the remainder of the waste stream as a resource.

Los Angeles County is developing a program to convert solid waste into energy

Continued on Page 14

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A Closer Look

by Donna Currie

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Just ten years ago, CleanScapes was pressure washing the alleyways in the Pioneer Square area of Seattle. It was a job that needed to be done, and Chris Martin founded CleanScapes to do it.

Today, CleanScapes is a growing waste collection service, with about 80 employees, that is in competition with some of the big names in the industry.

Signe Gilson, waste diversion manager for the company, said that in the beginning, the idea was to make the Pioneer Square area more pleasant for both visitors and residents. Pioneer Square is a densely built area, filled with historic buildings and with many tourist attractions nearby.

First, Martin was doing pressure washing, but then he came up with “dumpster free” trash removal that would eliminate the need for large dumpsters in the alleys. The system was designed to be a “pay as you throw” operation, where customers are charged for what they dispose of, rather than assessing a flat rental fee for a dumpster. Gilson described it as a more cost-effective way for the businesses to operate, since it “gives an incentive to reduce waste.”

The city of Seattle likes the dumpster-free approach so much that it is considering enforcing a regulation that says dumpsters are not allowed in city right-of-ways. Gilson said that the law is already on the books but hasn't been enforced. Now that dumpster-free trash pickups are available, businesses have a viable alternative to the dumpsters.

Gilson explained that CleanScapes' dumpster-free customers use color-coded plastic bags for waste, and CleanScapes makes pickups once or twice a day on each route, so trash isn't left out for long periods of time. She said that this works well for a dense urban area where the land that the dumpster takes up is more valuable to the business. “Right of ways are for people,” Gilson said, and this approach is “reclaiming the alleys,” for better use. “The idea is to make our downtown areas livable.”

It wasn't long before the dumpster-free business grew to include other parts of the downtown area of Seattle, and then spread to other areas of the city. Just recently, CleanScapes entered the more traditional waste hauling field when they won a contract for waste hauling in the nearby city of Shoreline. In April of 2009, CleanScapes will also begin hauling trash in the city of Seattle, in a shared contract with another waste hauler.

Gilson said that since CleanScapes has never owned a landfill, the company's focus has always been “the more modern one of waste diversion.” She said, “We don't have the mind set of owning a landfill and filling a landfill. Our direction is waste reduction and recycling.”

The city of Seattle encourages its residents to recycle and has included incentives for composting. Gilson said that compost is currently picked up every other week, but expects that soon it will be every week. She also hopes that eventually the regular trash pickups will decrease to every other week as composting and recycling increase. “People are embracing it,” she said. Gilson said that next to construction and demolition materials, food waste is one of the heaviest components going to landfills today.

Gilson has been working for CleanScapes for about two years and said that she most enjoys meeting with the customers and working with them to help them increase recycling and composting. She said that Seattle's trash leaves the area on a train, stretching “a mile long,” and that she imagines that the work she is doing will “help shorten the train.”

She is also enjoying watching the company grow, and expects that expansion will continue. “There are a lot of small cities around here,” she said. Along with the growth comes new employees, and she also enjoys interacting with them.

As far as the company, she said that she particularly enjoys the innovation and the fact that, “It's encouraged to be creative.” And because the company is locally owned, “We're approachable here. We are part of the culture here.”

As part of the culture, CleanScapes participates in a number of community events, including the city's Clean and Green Parade, street fairs, and other events where they set up collection locations for trash, compost and recyclables. “We tend to get involved in community clean-up things,” she added.

Gilson said that when the company provides its service through a contract, “the innovation isn't as apparent,” to the customers, but she said that innovation, future thinking, and creativity are what the company is about.



—Signe Gilson

Georgia supports recycling with new license plate

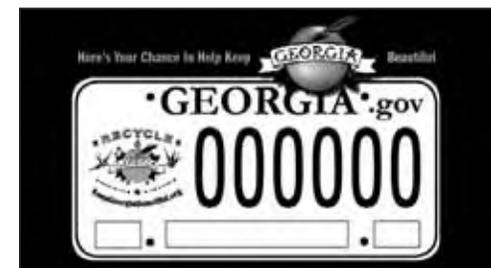
In an effort to increase recycling awareness in Georgia, the Keep Georgia Beautiful Foundation and the Georgia Department of Community Affairs (DCA) are encouraging residents to order the new “Recycle 4 Georgia” license tag.

The “Recycle 4 Georgia” design was created as part of the state's Recycling on the Go campaign which encourages residents to remember to recycle while away from home. It is the first step of a statewide education campaign that involves integrated marketing, regional recycling collection hubs and the use of consistent statewide data collection and measurement. The Curbside Value Partnership (CVP), a national invitation-only program designed to help communities grow their recycling programs through education, is working with the state of Georgia as it undergoes this effort.

The logo on the new license tag features a quirky spin on a tattoo theme where the “Recycle 4 Georgia” tattoo is seen in unexpected places.

Georgia has the second largest market for recyclables in the entire country – second only to California. Right now, the demand is so high for recyclable

materials within the state that companies have to import recyclables from other states just to meet demand. The state conducted a waste characterization study to determine exactly what Georgians were throwing away. The study uncovered that 70 percent of what is currently going into Georgia landfills is recyclable.



Under DCA's leadership, efforts are underway to divert as much as possible of that 70 percent from disposal and put it right back into Georgia's economy.

In order for the new license plate to be offered year-round, 1,000 orders are required by the end of the year.

The cost for the new tag is \$25, \$10 of which will go to the Keep Georgia Beautiful Foundation to support recycling and environmental education in the state.

Seattle

Continued from Page 13

and other chemical products and is sharing the results of its legislative process, studies and tendering with other cities and levels of government.

As mentioned, residential recyclables are collected every two weeks. This has been the case for the past 20 years. Residents have not opposed this system.

“The only opposition was that we would change the system a little bit – down from a 3-cart to a 1-cart system,” says Stav, “and every once in awhile, we had a contract change and they would change the collection day, but in terms of the overall system and the concept of recycling, the citizens have been behind us 100 percent.”



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Next spring, residents will be allowed to include meat and dairy products to the food waste that they put out. As well, compost collections will be done on a weekly basis. Residents will also be allowed to place glass in their 64-gallon wheeled recycling containers. Glass is currently placed in a separate container.

Economics, says Sidles, plays a critical role on how quickly a city or town can establish a successful recycling program with a high diversion rate. Other factors, he says, include whether the jurisdiction has contractors or runs the service in-house, the types of recyclables being collected and the proximity to markets and how the necessary funds would be collected from the residents.

“Economics aside,” says Stav, “the keys to successful recycling would be providing a convenient system that businesses and citizens can take part in, continually providing clear education on how to recycle and the benefits of recycling.”

Many cities have contacted Seattle for information on its diversion and recycling programs, but the city is also taking notice of best practices in other jurisdictions. Seattle shares its experiences in terms of legislation, recycling techniques, public education programs and other aspects of the programs.

I was trying to get my seventh-grade history class to understand how the Indians must have felt when they first encountered the Spanish explorers.

“How would you feel,” I asked, “if someone showed up on your doorstep who looked very different, spoke a strange language and wore unusual clothes? Wouldn't you be a bit scared?”

“Nah,” one boy answered, “I'd just figure it was my sister's date.”

AUTO

Consumers protected from title washing of flooded cars

It happens all across the country: people purchase used cars without realizing they were totaled in crashes, floods and other disasters. These buyers end up paying more than the car is truly worth and often face steep repair bills.

To protect consumers from this fate, Liberty Mutual is providing Carfax with its data on every car declared a total loss and sold for salvage for the past five years and going forward. This information is then disclosed to the buyer on a Carfax vehicle history report.

“Varying state laws and a deceitful practice called ‘title washing’ allows salvaged cars to be sold without any documentation that they were once totaled,” said Ted Gramer, Liberty Mutual executive vice president, personal claims.

“In the aftermath of disasters like the recent Midwestern floods and hurri-

canes, consumers need added protection from increased fraudulent activity.”

Through the Liberty Mutual Rewards website, www.libertymutualrewards.com, Carfax is offering consumers a free flood check to quickly confirm if a vehicle they are interested in buying has ever been reported as flood damaged. Consumers also can purchase at the site a complete Carfax vehicle history report at a 25 percent discount.

Furthering its consumer safety responsibility, Liberty Mutual also recently announced its support of the National Insurance Crime Bureau’s VINCheck(SM) buyer protection program. Consumers can input any vehicle’s unique 17-character identification number (VIN) at www.nicb.org to determine if a participating insurance company such as Liberty Mutual had previously declared the car a total loss.

PHOTO BY DUNCAN NOAKES, DREAMSTIME



Estimates from the insurance industry conclude that as many as 700,000 vehicles have suffered flood damage.

APRA E&M Division to have learning booth at the Big R Show

Fernand Weiland, co-chairman of the Automotive Parts Remanufacturers Association’s (APRA) Electronics & Mechatronics Division, recently announced there will be a “learning booth” at the International Big R Show on November 2-3, 2008 in Las Vegas, Nevada.

Due to the shift away from purely mechanical, hydraulic and electrical components, APRA’s E&M Division felt compelled to offer this “learning booth” as a way to familiarize remanufacturers with the mechatronic components, which combine mechanical and electrical components.

Weiland stated, “Now is the time for ‘traditional’ remanufacturers of clutches, starters, rack & pinions, brakes, transmissions, etc., to embrace these new technologies and learn to remanufacture them.” APRA’s E&M Division is offering a seminar during the Big R Show to educate remanufacturers and to allow them to better understand mechatronics.

During the show, remanufacturers will be able to see hybrid starter-generators, steering, electronic brakes, electronic engine management, injection systems, etc. Engineers will be available at the E&M Division booth to answer questions.

AAEQ responds to rules concerning metal thefts

Soaring copper prices have made metal a prime target of local thieves. The issue has created a perplexing problem for recyclers like AAEQ Manufacturers and Recyclers in North Las Vegas, who are committed to weeding out legitimate sellers from criminals that indiscriminately steal materials—ranging from copper wiring and plumbing from residences and commercial buildings to basic infrastructure such as manhole covers and sewer grates.

In light of a police raid in August at a large-scale Las Vegas-area recycling operation, AAEQ president and CEO, Scott Stolberg, says his company remains committed to working with law enforcement officials to help solve this community-wide problem.

AAEQ recently invested in a new, \$100,000 point-of-purchase system called Scrap Dragon that videotapes transactions, takes scanned fingerprints and gives separate IDs to each scrap seller. After a completed transaction, sellers receive a coupon which can be redeemed at an on-premise ATM, which also captures their image.

The new program is scheduled to be operational in September of this year.

“Our goal is to help law enforcement prosecute people that are stealing metal and then trying to sell it as recyclable scrap,” said Stolberg.

Las Vegas-area officials are considering legislation to make it more diffi-

cult for scrap metal buyers and sellers to profit from the thievery. The plan is to loosely model Nevada’s scrap-buying regulations after strict laws enacted in Arizona last year.

AAEQ is a member of the Institute of Scrap Recycling Industries, Inc. (ISRI), an organization that works hard to combat metal theft and works with government agencies to craft reasonable regulations that will help keep recyclers in business while cracking down on illegal sales.

While Stolberg is in favor of good regulations, he said some of the ideas being tossed around by Las Vegas officials would virtually put legitimate recyclers like AAEQ out of business.

Stolberg encourages legislators and law enforcement officials to bring recyclers to the table when proposing legislation. This would allow the recyclers to have a voice in the process. Stolberg also encourages them to look at work previously completed by ISRI that tries to balance the interests of all parties.

ISRI has developed “Recommended Practices and Procedures for Minimizing the Risks of Purchasing Stolen Scrap Materials,” that recyclers can employ at their facilities to minimize the risk of unintentionally purchasing stolen materials. AAEQ has adopted these guidelines in its operations.



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CHALLENGER

METALS

Scrap metal recyclers' efforts lead to the arrest of 161 suspected thieves

Theft alert system enables national notifications

In the first six months of 2008, OmniSource helped police make 161 arrests of individuals suspected of possessing and attempting to sell stolen materials at yards owned by the Fort Wayne, Indiana-based company.

Like many scrap recycling facilities across the country, OmniSource works closely with local law enforcement agencies in a coordinated effort to curb theft of materials, a problem that has grown as prices for metallic and non-metallic commodities have risen in recent months.

"We employ local off-duty police officers to work at a number of our retail operations," states Jeff Wilke, corporate safety-security manager for OmniSource. "Our personnel provide training in materials recycling to the police officers so that they are better able to spot recyclables that would not ordinarily be purchased at the retail level. The officers then join our employees at the scale, allowing them to interact with customers, to spot suspicious items and to question those who are in possession of them. The result is that this combined effort has led to the arrests of 161 people...people who have stripped homes of copper and other materials, employees that steal from their businesses, thieves who vandalize and steal railroad infrastructure materials."

Local law enforcement officers working with OmniSource are investigating another 165 cases where information gathered during initial investigations resulted in follow-up by police. That in turn has led to a number of arrest warrants being issued.

Theft of materials - ranging from copper wiring and plumbing from residences and commercial buildings to basic infrastructure such as manhole covers and sewer grates - has become an overwhelming problem for communities, police, and also recyclers themselves. In fact, more than half of the

nation's recyclers have been victims of one or more thefts in the past year.

"Materials theft is a growing problem that affects all aspects of a community, and cooperation between affected parties is an essential part of the solution," stated Institute of Scrap Recycling Industries (ISRI) president Robin Wiener.

On the national level, ISRI's efforts to combat the materials theft problem include partnering with the National Crime Prevention Council to help educate law enforcement about the industry and the tools ISRI has available to aid law enforcement. ISRI operates a nationwide Theft Alert System that allows law enforcement, scrap recyclers, or victims of theft to quickly broadcast an e-mail alert about a theft to scrap recyclers and other stakeholders, not only in the state where the theft occurred, but in surrounding states as well. The system can also be used to post "reverse alerts" when recyclers identify material they suspect has been stolen.

The ISRI Theft Alert System is available free of charge to law enforcement and qualified victims of materials theft throughout the country. The alerts have been effective in successfully solving many thefts over the past two years. To use the ISRI Theft Alert System, the theft must first be reported to local law enforcement and should include as much identifying information on the materials as possible, including photographs if available. Send the email to theftalert@isri.org.

ISRI has also developed "Recommended Practices and Procedures for Minimizing the Risks of Purchasing Stolen Scrap Materials," that recyclers can employ at their facilities to minimize the risk of unintentionally purchasing stolen materials.

For more information about ISRI's Theft Alert System, visit www.isri.org/theft.

New 2008 FeMET and StEEL scholarships recipients chosen

The American Iron and Steel Institute (AISI) and the Association for Iron & Steel Technology Foundation's "Ferrous Metallurgy Education Today," (FeMET) and "Steel Engineering Education Link", (StEEL), initiatives, aimed at attracting top talent to the North American steel industry, have awarded scholarships for 2008.

Nine students from six United States and Canadian universities have been awarded FeMET scholarships - focusing on metallurgy and materials science - and similarly five from five United States universities have been identified as StEEL scholarship finalists - focusing on all engineering disciplines. The next step for the StEEL finalists is to be matched with interested corporate sponsors. In addition to the FeMET and StEEL Scholarships, AISI and the AIST Foundation have awarded the inaugural AISI/AIST Foundation Premier Scholarship.

AISI/AIST Foundation Premier scholarship winner:

Thomas J. Bailey, Metallurgical Engineering, Missouri University of Science & Technology

FeMET scholarship winners:

Hillary Griffith, Metallurgical Engineering, Missouri University of Science & Technology;

Bradley B. Hasek, Material Science and Engineering, Pennsylvania State University;

Mark J. Hlady, Materials Engineering, University of Alberta;

Sarah Miller, Materials Science and Engineering, Washington State University;

Micah P. Morrison, Metallurgical Engineering, Missouri University of Science & Technology

Nichlas Z. Swintek, Materials Science and Engineering, University of Arizona;

Hannah M. Terwelp, Metallurgical Engineering, Missouri University of Science & Technology;

Ashley E. Vayer-Jenkins, Metallurgical Engineering, South Dakota School of Mines & Technology;

Eric D. Young, Metallurgical Engineering, South Dakota School of Mines & Technology.

StEEL scholarship winners:

Marlon J. Belleth, Electrical Engineering, University of Houston, sponsored by CMC Steel, Texas;

Nathan E. Carlson, Metallurgical Engineering, University of Utah, sponsored by Nucor Steel, Utah;

Kalan P. Kucera, Materials Science & Engineering, University of Kentucky, sponsored by Nucor Steel, Texas;

Steven E. McKee, Mechanical Engineering, University of Missouri-Columbia, sponsored by ArcelorMittal;

Stefan K. Prodan, Materials Science & Engineering, Georgia Institute of Technology, sponsored by California Steel Industries, Inc.

Scholarships of \$5,000 each will be awarded to each scholar for the school year beginning in fall 2008.

Each scholarship will include a paid internship at a North American steel company during the summer of the 2009 and a second scholarship of \$5,000 in the student's senior year.

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—Michael Jordan

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$303.00	\$300.00	\$395.00	\$445.00	\$505.00
#1 Bundles	per gross ton	295.00	292.00	390.00	394.00	478.00
Plate and Structural	per gross ton	295.00	275.00	390.00	383.00	473.00
#1 & 2 Mixed Steel	per gross ton	429.00	230.00	384.00	365.00	429.00
Shredder Bundles (tin)	per gross ton	272.00	198.00	202.00	276.00	306.00
Crushed Auto Bodies	per gross ton	272.00	200.00	220.00	240.00	313.00
Steel Turnings	per pound	239.00	105.00	218.00	201.00	302.00
#1 Copper	per pound	2.58	2.98	2.82	2.65	3.05
#2 Copper	per pound	2.37	2.84	2.67	2.42	2.89
Aluminum Cans	per pound	1.00	.81	.81	.70	.81
Auto Radiators	per pound	2.01	1.97	1.68	1.70	2.04
Aluminum Core Radiators	per pound	.80	.70	.58	.58	.75
Heater Cores	per pound	1.85	.98	1.17	1.01	1.49
Stainless Steel	per pound	.73	.74	.80	.63	.86

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METALS

June 2008 steel imports up 7% from May 2008

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the United States imported a total of 2,675,000 net tons (NT) of steel in June 2008, including 2,068,000 NT of finished steel (up 7 percent and 1 percent, respectively, vs. May final data).

While total and finished steel imports through the first six months of 2008 are down 11 percent and 13 percent, respectively vs. the same period in 2007, the monthly average for finished imports in the most recent 3-month period (April-June 2008) is up 2 percent vs. the monthly average in the previous 3 months (January-March 2008). Total and finished imports on an annualized basis this year are each down 5 percent vs. 2007.

Key products with large increases in June compared to the month before include: Wire Rods (up 56 percent), Sheets

& Strip All Other (up 53 percent), Standard Pipe (up 47 percent), Plates – Cut Lengths (up 27 percent), Bars – Hot Rolled (up 26 percent) and Reinforcing Bar (up 18 percent). For the first six months of 2008, products with significant increases vs. the same period in 2007 include Oil Country Goods (up 24 percent) and Line Pipe (up 16 percent).

In June, the largest volume of finished steel imports from offshore was from China (347,000 NT, up 20 percent from May). While steel imports from China in the first six months of 2008 are down 40 percent compared to the same period last year, June saw China register its highest monthly volume of the year. Much of this tonnage is in high-value steel products still receiving government export tax rebates (e.g., OCTG, line pipe and hot-dipped galvanized sheet).

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

	Prelim June 2008	May 2008	June 2007	June vs. May 2008 % Change	2008 Total vs. 2007 Total % Change
China	347	289	511	20.3%	-31.8%
South Korea	168	202	193	-16.9%	12.0%
Japan	124	118	119	5.2%	3.8%
Germany	105	81	117	28.5%	9.9%
India	46	123	58	-62.4%	40.8%
Turkey	23	6	75	299.0%	26.0%
Taiwan	66	52	79	27.3%	-37.1%
Australia	54	61	22	-9.9%	23.2%
All Others	1,135	1,116	1,239	1.7%	-3.3%
Total	2,068	2,047	2,414	1.1%	-5.1%

Source: U.S. Dept. of Commerce, Bureau of the Census

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METALS

California deals with increased recycling thefts

by Irwin Rapoport

Many cities in California, as well as those in other states, are experiencing serious thefts of recyclables, primarily aluminum cans and other containers.

This has led to considerations of updating existing municipal laws and the introduction of new legislation.

Thefts affect the income of private contractors that provide recycling collection services. Should these thefts continue at the current level or increase, it could affect the viability of some recycling programs. Cities are also experiencing financial losses.

“Professional poachers, rings of recycling thieves operating fleets of pickup trucks — crudely modified to carry big loads — are stealing from residential recycling bins in many cities,” said Robert Reed, a spokesman for the San Francisco-based Sunset Scavenger Company.

“The scrap yards open early just to buy recyclables from professional poachers.”

—Robert Reed

“The problem has increased significantly in the last two years,” he adds. “It is an illegal underground economy. Residents report the poachers are increasingly aggressive. These professional poaching rings operate outside the law. Many have fleets of ten trucks or more. They sweep through residential neighborhoods the night before scheduled collection service and steal bottles and cans. Residents report poachers create noise and litter and even trespass.”

The company is requesting that San Francisco (SF) allocate more police resources to solve the problem.

Thousands of SF residents have filed complaints about groups of poachers stealing material from their recycling carts. One SF resident said that a recycling thief assaulted her after she asked the poacher not to take her recyclables.



Poaching rings operate entire fleets of pickup trucks modified to hold larger loads.

Based on declines in containers collected in the curbside recycling program, it is estimated that theft is costing the city at least \$469,000 (loss for 2007) a year, above historic levels.

“Less material collected in municipal recycling programs means less revenue from selling recyclables to manufacturing facilities to help fund local recycling programs and to help offset increases in monthly garbage bills charged to customers,” said Reed. “Ratepayers inherit the cost of recycling theft. In the past few months, several poacher trucks overloaded with bottles taken from recycling carts in San Francisco have crashed on area highways, including at the foot of the Bay Bridge, spewing broken glass and snarling traffic for hours.”

Financial costs are also mounting for the city’s recycling service providers. Thieves cut locked recycling containers with bolt cutters, damage others with crowbars and even steal the recycling carts. Sunset Scavenger Company and Golden Gate Disposal & Recycling (SF’s local garbage and recycling companies) have replaced thousands of stolen carts in the past year.

PHOTO COURTESY OF SUNSET SCAVENGER COMPANY

Stealing bottles and cans is illegal in SF, NYC and many other cities. Thieves caught and convicted in SF face fines of up to \$500 and could serve up to 6 months in jail.

Reed referred to the relationship between thieves and scrap yards, noting that pictures of poachers’ trucks were taken at scrap yards that purchase large quantities of bottles, cans and paper stolen from recycling carts.

“The scrap yards open early just to buy recyclables from professional poachers,” he said. “They do not ask questions and pay in cash.”

Concord, a city outside of SF, estimates that thefts cost it \$40,000 annually, while Berkeley believes it costs them \$50,000 plus annually.

Joe Garbarino, chairman of the board of Marin Sanitary Service (MSS), a garbage and recycling company that serves approximately 200,000 people in Marin County (SF Bay Area), as well as an MRF – Marin Resource Recovery, is frustrated by thefts and is demanding that city and county officials take action against the thieves and not pay lip service to the problem.

He said that his company has exceeded the state’s 50 percent diversion rate (by 2000) by 15 percent since 1996.

“Thefts costs us money,” he said, adding that his contract with the county expires in 2027. “We spend \$250,000 per-truck, pay union wages to collect the solid waste and recyclables and these

Continued on Page 23

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METALS

Steel Dynamics sets OmniSource promotions

Steel Dynamics, Inc. announced a number of management promotions and organizational changes at OmniSource Corporation, its wholly-owned metals recycling subsidiary.

In making these announcements, Mark Millett, Steel Dynamics executive vice president for metals recycling and ferrous resources and the recently appointed president and chief operating officer of OmniSource Corporation, said, "These new appointments, all of which have come from within the company, will provide additional vision and leadership as we continue to build our OmniSource platform."

The following are appointed OmniSource executive vice presidents:

Tommy Tuschman, who has served as an executive with OmniSource since the merger of his scrap company into OmniSource in 1980, becomes OmniSource's executive vice president for strategic sourcing and business development. He will continue in his role of sourcing of metals from major strategic accounts as well as pursuing other OmniSource growth opportunities.

Marvin Siegel will continue in his role as executive vice president, leading OmniSource Southeast. Previously, Marvin served as president of Recycle South,

which became a part of OmniSource earlier this year.

Larry Adelman has been named OmniSource executive vice president-non-ferrous group. Larry, who will be responsible for strategic operations of the non-ferrous group, served as president of Admetco, a non-ferrous scrap processor, from 1977 until it was acquired in 2004 by OmniSource.

Rich Brady is named OmniSource vice president-ferrous sourcing and marketing. Rich previously served as vice president for ferrous resources for Steel Dynamics (SDI) and upon joining the company in 2004 established SDI's in-house scrap procurement department.

Bob Brewer is named OmniSource vice president-ferrous operations. In this role, Bob will be responsible for six geographically-defined OmniSource scrap collection and processing divisions in the Midwest. Bob previously served as Southern Indiana division manager.

Jason Redden is named OmniSource vice president-national accounts and foundry sales. Jason becomes responsible for procurement and management of scrap metal from large regional and national industrial accounts. Jason has held marketing positions at OmniSource since 1997.

Steve Alberico is named OmniSource vice president, non-ferrous sourcing and marketing. Steve previously served as nickel and stainless commodity manager. A 28-year veteran of the metals industry, he has held numerous positions in scrap procurement, sales, and operations.

Jeff Rynearson, a 25-year employee of OmniSource, has been named vice president, non-ferrous operations. In this capacity, he will be responsible for the company's six high-production non-ferrous processing facilities in the Midwest.

Denny Luma, president of Superior Aluminum Alloys, Inc., also becomes a vice president of OmniSource. Superior Aluminum Alloys is a wholly-owned subsidiary of OmniSource Corporation. Prior to joining OmniSource in 2001, Denny was president of Wabash Alloys.

Steel Import Permit applications up 9%

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of July totaled 2,916,000 net tons (NT).

This was a 9% increase from both the 2,671,000 permit tons recorded in June 2008, and the June preliminary imports total of 2,675,000 NT.

Import permit tonnage for finished steel in July was 2,206,000 NT, an increase of 7% from the preliminary imports total of 2,068,000 NT in June.

For the first seven months of 2008 (including July SIMA and June preliminary), total steel imports were 18,791,000 NT, down 11% from the 21,110,000 NT imported in the first seven months of last year.

For July 2008, the largest finished steel import permit applications for off-shore countries were for China (367,000 NT), Korea (223,000 NT), Japan (164,000 NT), Germany (108,000 NT) and India (85,000 NT).

Finished steel import permit applications for China increased 6% in July compared to June preliminary imports and were the highest monthly total since July of 2007. Products that increased in July vs. the June preliminary include: Reinforcing Bar (up 45%), Oil Country Goods (up 21%), Hot Rolled Bar (up 19%), Hot Dipped Galvanized Sheet & Strip (up 17%) and Line Pipe (up 13%).

A friend of mine is with the sheriff's department canine unit. One evening, he was dispatched to the scene of a possible burglary, where he discovered the back door of a building ajar.

He let the dog out of his patrol car and commanded it to enter and seek. Jumping from the back seat, the dog headed for the building. After lunging through the doorway, the dog froze and backed out. My friend was puzzled until he noticed the sign on the building:

"Veterinarian's Office."

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

Climbing above the competition: A case study in real world marketing Part 2 of 5

Last month, we talked about marketing vs. advertising. This month, I would like to share a personal example. Here is how my marketing team applied the principles we have been discussing to help make my first book for entrepreneurs a success.

We applied the same basic principles of marketing that can work in your business in marketing *How To Salvage Millions From Your Small Business*. We first determined that our primary readers were owners in the auto recycling industry. We know by our relationships that most of these readers have limited time to read business books. If we could create a practical business guide worthy of their investment of time, we concluded, we'd be doing something significant already.

We figured that in order to make this book effective, we'd have to create tools they could easily apply and place them in the margins for quick reference. So we did that.

We also reasoned that our primary readers wouldn't buy enough books to justify our effort; so we slanted it toward general market small business entrepreneurs (with less than 100 employees) who might be hungry for more success than they've had to date.

In this example, our determination to provide a handy reference of tools in the margin along with action items gave rise to the use of a wrench as an icon, and that resulted in the photograph we used for the cover. It was exciting to see that our subliminal message of a "tool" targeted our primary readers so well.

That's marketing. The idea in this illustration cost us nothing. The artwork for our cover (which serves as on-going advertising) cost very little compared to the normal cost of display advertising.

No one is going to market for you as well as you can, if you are thoughtful and fully informed. You can go to an agency, but you may end up disappointed. Your results may not be what you want and you will have spent a lot of money on the effort.

Ad agencies are probably not your best bet because most small businesses simply can't allocate the financial resources required to hire a top advertising agency.

We believe the best thing you can do is to learn to understand marketing better. It starts with an examination of who your primary customer really is. Once you have that definition in hand, you can begin to catalog ways to reach that specific market. There are hundreds of ways when you actually ponder it. Most of them won't cost you much, if anything. Pick a good business book for example. Read just a few and you'll learn more than you can implement. Two of my favorites are *Customers for Life* and *The Discipline of Market Leaders*.

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.



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METALS

Southern Recycling relocates New Orleans operations

Southern Recycling is relocating its business to a different site in the New Orleans metro area, allowing the company to maintain its operations in Louisiana. The company's \$40 million investment will retain 150 jobs and generate 100 new jobs in the region over the next three years.

Due to the closure of the Mississippi River-Gulf Outlet (MRGO), Southern Recycling had to select a new location for its shipbreaking and metal recycling operations. The company, one of New Orleans' oldest businesses, considered six in-state and out-of-state deep-water sites. Southern Recycling purchased approximately 344 acres of batture land and 117 acres of contiguous dry land in St. Charles Parish. The site's deep-water access and large, wide batture were critically important to the company's ability

to receive ships being scrapped and to transport recycled materials to customers.

"As a Louisiana company for 108 years, this is the place we want to do business, and we wanted to stay as close to New Orleans as possible," Southern Recycling CEO Joel Dupré said.

According to Dupré, another key factor in the decision to remain in Louisiana was the support he received from the state's congressional leaders. As the result of vigorous efforts on the part of Louisiana's congressional delegation, the company will use federal Water Resources Development Act funds to help offset the cost of the project. The company also recently announced the return of its headquarters, including 25 corporate jobs, to downtown New Orleans.

California thefts

Continued from Page 21

thieves arrive ahead of us at night and steal the materials. It's unreal. When I come to work in the morning, there is a line-up of trucks coming in to sell the bottles and cans that they stole last night. Unfortunately, you can't prove anything when they come in. You have to catch them when they are doing it."

Garbarino, who believes that there are 30 pick-up trucks involved in thefts, said that the county has not made any arrests.

"They are obviously organized because they know where to go – they know our routes better than we do," he said. "The county needs to put out more police patrols at night. The District Attorney is also a problem. He won't prosecute anybody if it is \$500. The individual load may be less than \$500, but when you add it up, it goes into the hundreds of thousands of dollars."

Garbarino is seeking support from his industry colleagues to persuade a State Assembly member or Senator to introduce a bill that would have the state distribute funds to municipal police forces and Sheriff's offices to ensure that officers would be dedicated to patrol recycling collection routes to deter thefts and apprehend thieves.

"There is hundreds of millions of dollars in deposit money that has never been recovered because people put bottles and cans in recycle bins," he said. "If we can tap that money, it can make a difference. We need a lot of help and if we don't get any help from the state or the cities, I am going to have to hire people to keep an eye out on what people put on the curb for us. I am afraid that violence may result from that."

"If the thieves know that someone is watching them and that they will be arrested if caught," he added, "they'll know we are no longer going to stand

for this. We need somebody to sponsor that bill and get it passed quickly."

Garbarino estimates that his company has lost \$90,000 a month for the past 9 months due to thefts.

"It costs me a lot more to send 20 trucks out to pick up recyclables and come in with very little to sell," he said. "It's also the ratepayers who are losing. I get paid whether I pick up nothing or what I am supposed to collect. If local jurisdictions do not reach the diversionage required by the state, they can be fined \$10,000 a day."

He added that his firm will be asking the county for increased fees to cover his losses, a request that is allowed for in his contract.

"If they don't want to pay us, the only logical thing to do is cancel the recycling collection program," said Garbarino. "I don't like to put the city on the spot. I would like for somebody to come up with a solution to this."

The recyclables collected by private contractors in Marin County belong to the contractors, but the amount of material collected is credited to the county.

MSS is one of five companies that collect solid waste and recyclables in Marin County.

Garbarino, who has been involved in the waste management business since 1955, notes that thieves use beat-up vehicles, often with wooden sideboards attached to them.

"These people are destroying the program," he warned. "They are stealing hundreds of millions throughout the state."

While California appears to be a hotbed for thefts, stealing is occurring in El Paso, Texas; Westchester County, New York which is looking into passing legislation that would implement \$1,000 to \$2,000 fines and 90 days in jail; and Truckee (North Tahoe), Nevada.

Westchester, in 2007, generated close to \$5.7 million from the sale of its recyclables, most notably cans, along with glass, plastic and cardboard.

OSHA issues scrap metal recycling safety and health hazards guidance report

The Occupational Safety and Health Administration (OSHA) has issued a new guidance report to assist metal recycling facility employers and employees with safety and health hazards issues that arise from scrap metal recycling.

The guide can assist with the identification of the various hazards associated with exposure to various metals and pro-

cessing chemicals. It will also assist in managing and identifying the hazards related to the processes and equipment used in metal scrap recycling operations.

To obtain a free copy of this report, visit www.americanrecycler.com and click on the link *OSHA – Guidance for Scrap Metal Recyclers*.

May steel shipments down .8%

The American Iron and Steel Institute reported that for the month of May 2008, United States steel mills shipped 9,008,000 net tons, a 0.8 percent decrease from the 9,087,000 net tons shipped in May 2007 and a 4.2 percent decrease from the 9,403,000 net tons shipped in the previous month, April 2008.

A year-to-year comparison of year-to-date shipments shows the following changes within major market classifications: service centers and distributors, up 4.3 percent; automotive, down 4.1 percent; construction and contractors' products, down 2.7 percent; and oil and gas, up 5.6 percent.

Nucor acquires two companies

Nucor Corporation announced that its wholly owned subsidiary, The David J. Joseph Company (DJJ), has signed a purchase agreement to acquire the assets of the American Compressed Steel operations of Secondary Resources, Inc. American Compressed is based in Kansas City, Missouri. In addition, DJJ has completed the acquisition of substantially all the assets of Victoria, Texas-based Victoria Recycling.

American Compressed Steel was founded over 50 years ago. In addition to the Kansas City location, American Compressed also operates facilities in

St. Joseph and Sedalia, Missouri. American Compressed employs 112 people and processes nearly 180,000 tons annually. The acquisition is expected to close within 30 days.

Victoria Recycling was founded in 2007. Victoria Recycling employs 13 people and processes over 24,000 tons annually.

Upon acquisition, American Compressed Steel will become part of DJJ's Advantage Metals Recycling group. Since early June, Victoria Recycling has been affiliated with Texas Port Recycling, another DJJ regional company.



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CONSTRUCTION & DEMOLITION

Area builders bring nation's first green job curriculum to district

The Green Builders Council of DC, located in Washington D.C., unveiled the first green collar job training curriculum for the Washington, D.C.-area construction industry.

The curriculum will train current construction workers, plus career and technical education students entering the District's construction trades programs, in environmentally-sensitive construction methods and green building rating systems as certified under the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) standard.

Thanks in part to the leadership of the members of the Green Builders Council of DC, more than 100 buildings in the District, totaling over 120 million square feet, are already LEED certified.

Including planned projects, members of the Green Builders Council will be responsible for more than 200 million square feet of LEED certified construction in the District. Upon successful

completion of this curriculum, students will earn industry-recognized credentials that can help them gain employment at these and other green building projects.

Specifically, the curriculum will train workers and students to be proficient in:

- Recognizing the challenges that construction presents to the environment;

- Understanding the life cycle phases of a building and their impacts on the environment;

- Identifying eco-friendly alternatives to conventional building practices and understanding the costs and benefits of those alternatives, and;

- Understanding the U.S. Green Building Council's LEED rating process and being able to apply construction practices that contribute to a building's LEED rating.

The new curriculum is the product of a partnership between the Green Builders Council of DC and the Florida-

based National Center for Construction Education and Research (NCCER).

The Green Builders Council of DC and NCCER commissioned the Sustainable Facilities and Infrastructure Research Team of the Myers-Lawson School of Construction at Virginia Tech University to develop the curriculum. An updated version will be prepared in the coming months to train workers in the U.S. Green Building Council's revised LEED standards for 2009.

The curriculum has been endorsed by the U.S. Green Building Council as well as Green Advantage, an organization providing environmental certification for construction trades workers who demonstrate knowledge of current green building principles, materials, and techniques.

The training curriculum will be taught by NCCER-accredited training sponsors, including the Academy of Construction & Design at Cardozo Senior High School.

Over 18,000 tons of contaminated soil removed from New Jersey

In fewer than six months, the United States Environmental Protection Agency (EPA) turned an abandoned piece of property, located just across the street from private homes in the Ironbound section of Newark, New Jersey, into a parcel of land that no longer poses a threat to the surrounding community. EPA's regional administrator, Alan J. Steinberg, was joined by City of Newark mayor, Cory Booker, as well as councilman Augusto Amador at the Tidewater Baling site, to mark the culmination of EPA's cleanup efforts.

"The story of Tidewater Baling conveys the spirit of EPA's Superfund program," said Steinberg. "In a very short time, we addressed the immediate threats at the site and made sure it was safe for the community; we are now ready to hand it back to the City of Newark."

The Tidewater Baling site is a 2.5-acre parcel of land that is mixed in among industrial facilities, commercial properties and residences. Sampling done by EPA at the site revealed elevated levels of heavy metals, and Polychlorinated Biphenyls (PCBs) in the soil. Last March, EPA began a large-scale clean up of contaminated surface soil at the site and has spent over \$5 million on the effort. By the end of the clean up, approximately 15,000 tons of lead-contaminated soil and 3,000 tons of PCB-contaminated soil will have been excavated and removed. The excavated areas have been backfilled with a one-foot deep layer of crushed stone. Additionally, EPA demolished two abandoned buildings that were on the site, and shipped the building debris off-site. EPA also dismantled and shipped off-site remnants of large metal structures that had been used in the baling process. EPA will complete the last of its cleanup work and will hand this site over to Newark.

Asbestos abatement manager pleads guilty to fraud

David Muir, of Olney, Maryland, pleaded guilty to conspiracy to defraud the U.S. Small Business Administration's (SBA) 8(a) program, which is designed to assist socially and economically disadvantaged small businesses.

According to the plea agreement, since August 1998, Muir worked for, or was associated with, three Maryland companies that performed asbestos and lead abatement and demolition work on federal and private facilities.

Between 1998 and 2007, all three companies participated in the SBA's 8(a) program.

For one of the companies, Muir represented himself to different contractors and subcontractors doing business with the company as operations manager, project manager, quality control manager and vice president.

In violation of SBA's regulations, Muir and his co-conspirators, who are all non-disadvantaged individuals, exerted significant financial and operational control over the three Maryland corporations in a variety of ways, including: personally indemnifying the liabilities of one of the companies, which enabled it to obtain higher bonding and 8(a) contracts of higher value than the company otherwise would have been qualified; for exercising significant control over the contracts bid upon by all three companies; and exercising control over the selection and payment of subcontractors on behalf of two of the companies.

To continue participating in the program each year, the companies' presidents were required to submit updates to the SBA in which they certified that the companies remained eligible.

On June 27, 2005, Muir faxed to the SBA the 2004 financial statements of one of the companies, as part of that company's annual update. These statements failed to disclose that bonuses were paid to Muir and his co-conspirators, and that their bonuses and other compensation far exceeded the compensation paid to the disadvantaged individual. In fact, between 2002 and 2004, Muir and his coconspirators received approximately \$900,000 more in bonuses and salaries than the president of the company. These salaries and bonuses were given without the SBA's knowledge or approval.

Muir knew that he and the co-conspirators provided critical bonding, financial and operational support to the three companies, and during the course of the conspiracy, the presidents of two of the companies submitted fraudulent annual updates to the SBA in which they falsely certified that their companies continued to meet the SBA regulations related to eligibility, including those which prohibit financial and operational control of the firm by a non-disadvantaged individual.

Muir faces a maximum sentence of five years in prison, followed by three years of supervised release. U.S. District Judge Peter J. Messitte scheduled sentencing for October 30, 2008.

When a customer left his cell phone in my store, I scrolled through his numbers, found "Mom" and pushed send. His mother answered, and I told her what happened.

"Don't worry," she said, "I'll take care of it."

A few minutes later, the cell phone rang. It was "Mom".

"Martin," she said, "you left your cell phone at the convenience store."

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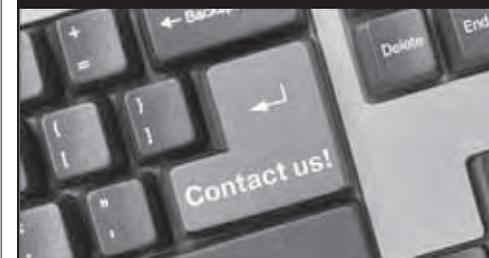
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PAPER

Temple-Inland acquires Caraustar's interest in Indiana boxboard mill

Temple-Inland, Inc. has acquired the remaining fifty percent interest in Premier Boxboard Limited LLC (PBL) from Caraustar Industries, Inc. PBL was a joint venture between Temple-Inland and Caraustar. The purchase price for Caraustar's interest was \$62 million in cash and assumption of \$25 million of debt associated with the purchased interest.

PBL produces lightweight gypsum facing paper and containerboard at a 308,000 tons-per-year mill in Newport, Indiana. Temple-Inland will continue to produce lightweight gypsum facing paper and containerboard at the mill. The lightweight gypsum facing paper will serve the needs of both Temple-Inland's building products operations and external customers. Containerboard produced at the mill will be primarily used by Temple-Inland's operations.

Caraustar has been the managing partner of PBL since its formation in 1999. Temple-Inland terminated the marketing and management agreements by and between PBL and Caraustar. Marketing and management fees paid by PBL to Caraustar under these agreements have been approximately \$4 million annually.

In addition to eliminating the marketing and management fees paid to Caraustar, Temple-Inland expects to realize synergies of approximately \$10 million from reducing cost, improving productivity and optimizing the mix of product as the mill is fully integrated into the Temple-Inland mill system.

Temple-Inland will fund the cash portion of the purchase price through borrowings under its existing credit facilities.

International Paper finalizes purchase of Weyerhaeuser's packaging assets

International Paper has completed the purchase of the assets of Weyerhaeuser's Containerboard, Packaging and Recycling business for approximately \$6 billion in cash, subject to post-closing adjustments.

Because the transaction is a purchase of assets rather than of stock, International Paper will realize a tax benefit that has an estimated net present value of approximately \$1.4 billion.

Carol Roberts, senior vice president of International Paper's packaging business, said she sees considerable upside potential in the acquisition.

"Weyerhaeuser has low-cost, well-run assets that complement our existing

mill and converting system and offer significant synergies," she said.

International Paper has identified profit improvement opportunities of about \$400 million annually from the acquisition, as a result of reducing duplicate overhead costs, integrating manufacturing operations, optimizing product mix, and improving operational and supply chain efficiencies. The company expects to achieve at least 40 percent of the improvement within 12 months of completing the transaction. The remainder is expected to be fully realized by the end of the third year.

Smurfit-Stone reports second quarter results

Smurfit-Stone Container Corporation reported a second quarter 2008 adjusted net loss of \$31 million, or \$0.12 per diluted share. Results compare to adjusted net income of \$15 million, or \$0.06 per share, in the second quarter 2007 and an adjusted

net loss of \$24 million, or \$0.09 per share, in the first quarter 2008.

Sales of \$1.8 billion for the second quarter 2008 were comparable to both the prior year quarter and first quarter 2008.

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Abanaki Corporation has added the EconoMini™ oil skimmer to its line of oil removal equipment.

The EconoMini is ultra-compact at approximately 4" x 3" x 4" and weighs 6 pounds.

This is the perfect skimmer to use in tight spaces, such as on parts-washer tanks and coolant sumps. It can even be used to skim oil through the 2" opening of a 55-gallon drum.

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Atlas Copco Construction Tools LLC introduced the CC 2500. The attachment offers faster jaw replacement, enhanced stability and shorter cycle times.

Both universal jaws and steel-cutting jaws are available for the CC 2500. Opening to a width of 34.6 inches, the universal jaws are ideal for heavily reinforced concrete demolition, building demolition, secondary reduction and material separation. The steel-cutting jaws open 16.8 inches wide and are suited for steel structure demolition, secondary reduction and material separation. Both jaws deliver a maximum cutting force of 330 tons.



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Heil Environmental has made improvements to their line of Half/Pack front loaders by upgrading the standard hydraulic pump offering from a gear pump to a single vane pump.

Vane pumps provide a number of benefits, including efficiency increases of up to 20 percent, lower system temperatures, and reduced fuel consumption.

The vane pump's internal cartridge can be replaced without removing the entire pump from the truck.

The Heil Half/Pack front loader offers payloads up to 1,200 lbs. per cubic yard, and a packer cycle time of 22 to 26 seconds.



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GLASS

Glass recycler wins environmental award

The California Resource Recovery Association (CRRA) named Vetrazzo, makers of the original recycled glass countertop surface, winner of their annual "Outstanding Closing the Loop Commitment" award. It is awarded for the implementation of an innovative program or creation of a product containing a high recycled content.

Vetrazzo uses 100 percent recycled glass to manufacture a surfacing material that is a sustainable alternative to granite and other quarried stone. In 2008, Vetrazzo expects to recycle 1,600 tons of waste glass from sources as diverse as California Refund Value glass bottles, building demolition and misshaped or rejected bottles and jars from manufacturers.



"A single panel of Vetrazzo can use up to 1,000 bottles," remarked James Sheppard, president of Vetrazzo. "We like to say there is a 'story in every surface' and to help tell that story we provide a 'Certificate of Transformation' with each panel so the owner will know the source of the glass in their countertop."

ELECTRONICS

Dell shows strong support for e-recycling

As environmental awareness and impact among individual consumers and business customers continues to grow, greater demands are now being placed on manufacturers to promote recycling and to reduce their environmental footprint.

For Dell Inc., a major computer manufacturer, this consumer awareness is shaping corporate policy in terms of dealing with increasing amounts of e-waste on a state and national basis, and helping to better define the term "producer responsibility".

Manufacturing a computer requires energy inputs ranging from the manufacturing of parts and assembly to the transport of the parts and finished product, as well the printed materials and packaging for the unit and various materials.

"Our basic policy is that we'll recycle anything with a Dell brand on it for free at any time – no additional purchase required," says Bryant Hilton, Dell's corporate responsibility communications manager. "We'll come to a customer's site and take the equipment back. Under the same program, if somebody is purchasing a new Dell computer and has an old computer that is not made by Dell, we'll take that back for free."

"In 2007, we collected 102 million pounds of equipment from customers – a 20 percent increase over 2006," he adds. "We hope to set a new bar in 2008. We collected 78 million pounds (nearly 40,000 tons) of unwanted information-technology equipment from customers in

2006, a 93 percent increase over 2005."

For individual consumers, recycling is free, but this differs for commercial and institutional customers who usually purchase a

value-added service to cover the cost of reverse logistics to collect equipment from different locations, have hard drives (HD) erased on-site or to provide full reporting.

Companies and institutions asking Dell to recycle their equipment could also receive a financial benefit.

"We include value recovery," says Hilton. "Often when a business retires their equipment, it is going to be newer and there is a good chance that either as a system or as parts, the equipment has value on the secondary market. If a customer wants, we'll do the refurbishment, sell it and return those proceeds to them. If managed correctly, they can get cash back."

Additional benefits for companies, says Hilton, include the data wipes on hard drives to remove data, the avoidance of improperly disposing of electronics and the freeing up of office space housing older equipment.

As well, for charitable purposes, Dell is able to help companies donate equipment to NGOs and schools through the aid of the National Cristina Founda-



—Bryant Hilton

tion (www.cristina.org), an organization that matches computers with non-profit organizations.

"They'll match a consumer's donated used computer with a non-profit that needs a new system and this allows the donation to stay local," says Bryant. "The NCF is a partner on the business side and we can custom work with them for that purpose."

For Dell, this policy helps to establish a thriving secondary market for complete systems and parts, which extends the lifespan of electronics components, creates value for these items, helps to ensure proper maintenance and further delays the possibility of e-waste possibly ending up in landfills.

Dell's Reconnect Program, a free drop-off program to recycle unwanted computers with Goodwill Industries International, is critical to recycling electronics.

"The free recycling for consumers all involves trying things to make it as convenient as possible for consumers," says Hilton. "Some find the drop-off more convenient than the home pickup. This is how we started working with Goodwill and it is based on accepted consumer behavior – if you have gently used goods that you don't need anymore, but have value, you just give it to Goodwill. It seemed natural to work computers into their process and it has worked very well."

Dell's connection to Goodwill began in the Austin, Texas in 2004.

Continued on Page 27



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ELECTRONICS

Dell recycling

Continued from Page 26

“Ideally consumers have a choice where Reconnect is available,” says Hilton. “They can bring their old computer to Goodwill and know that it is going to be well recycled and support the community.”

The goals of the Reconnect Program for the Goodwill Western New York are to:

- Offer consumers free recycling for any brand of computer equipment in any condition. Residents can find a drop-off location at www.reconnectpartnership.com or www.goodwillwny.org.

- Divert over 450,000 pounds of used computers and equipment from area landfills over the next year; and provide consumer education on the importance of environmentally-responsible computer disposal. Reconnect also can help create job opportunities for individuals with disabilities and other employment barriers.

The goals for the Reconnect program in the greater Rochester area – www.abvi-goodwill.org, started on July 3, are similar and include:

- To divert over 300,000 pounds of used computers and computer equipment over the next year.

- ABVI-Goodwill accepting and sorting the donated computer equipment and Dell’s product recovery partner will recycle and remarket the recycled materials. All proceeds support programs and job opportunities at ABVI-Goodwill for people who are blind or visually impaired.

Cities and areas with Reconnect programs include Austin (15 counties in Central Texas), San Antonio (23 counties in Central and South Texas), Houston (15 counties), San Francisco (Marin, San Francisco and San Mateo counties), San Diego County, North Carolina (49 counties), Pittsburgh, Northern New Jersey, Northwest Ohio and locations throughout Michigan.

Concerns are growing about the export of e-waste to developing countries. Dell appreciates these concerns and has taken steps to prevent this from happening.

“Regardless of the path of where it comes in, the material goes to a recycler that we authorize and all of our recyclers world wide have one set of standards that cover workplace and environmental requirements,” says Hilton. “One of the key elements is that there are absolutely no exports of e-waste or landfilling of anything environmentally sensitive. If waste is going to a developing nation where it is going to cause environmental harm, that is creating more of a problem.”

While Dell did not disclose the cost of its various programs and partnerships with Goodwill, Hilton says “we’ve made a significant investment in recycling programs. For recycling in general there are no incentives. If anything, the mandated requirements to recycle are growing, especially at the state level. There’s a cost to complying with those mandates and we find that programs such as our nationwide free recycling with home pick-up and Reconnect, where available, are helping minimize the costs to Dell of that compliance.”

The Home Depot launches CFL bulb recycling initiative

The Home Depot has launched a national in-store, consumer compact fluorescent light (CFL) bulb recycling program at all 1,973 The Home Depot locations. This free service is the first such offering made so widely available by a retailer in the United States and offers customers additional options for making environmentally conscious decisions from purchase to disposal. The Home Depot Canada launched a CFL recycling program in November, 2007.

At each The Home Depot store, customers can simply bring in any expired, unbroken CFL bulbs, and give them to the store associate behind the returns desk. The bulbs will then be managed responsibly by an environmental management company who will coordinate CFL packaging, transportation and recycling to maximize safety and ensure environmental compliance.

In addition to the CFL recycling program, The Home Depot has also launched an in-store energy conservation program to switch light fixture showrooms in United States stores from

incandescent bulbs to CFLs by fall 2008 and save \$16 million annually in energy costs.

The CFL recycling program is an extension of The Home Depot’s Eco Options program. Eco Options, launched in April 2007, is a classification that allows customers to easily identify products that have less of an impact on the environment.

Switching from traditional light bulbs to CFLs is an easy change consumers can make to reduce energy use at home. According to the EPA’s Energy Star Program, if every American switched out one incandescent bulb to a CFL, it would prevent more than \$600 million in annual energy costs and prevent greenhouse gases equivalent to the emissions from 800,000 cars. As the largest retailer of light bulbs in the country, The Home Depot sold over 75 million CFLs in 2007, which saved Americans approximately \$4.8 billion in energy costs and 51.8 billion pounds in CO2 greenhouse gases over the life of the bulbs.

RBRC expands battery program

Nickel Zinc rechargeable batteries now accepted through Call2Recycle

The Rechargeable Battery Recycling Corporation (RBRC) has expanded its rechargeable battery collection program for the first time in seven years to encompass a new chemistry, Nickel Zinc (Ni-Zn). Ni-Zn is now the fifth rechargeable chemistry recognized by RBRC, joining Nickel Cadmium (Ni-Cd), Nickel Metal-Hydride (Ni-MH), Lithium-ion (Li-ion) and Small Sealed Lead (Pb) rechargeable batteries.

PowerGenix, a manufacturer of rechargeable Ni-Zn batteries, has become the first manufacturer of Ni-Zn technology to become involved in RBRC’s Call2Recycle program.

The Ni-Zn rechargeable batteries will be branded with an RBRC Battery Recycling Seal, letting consumers and businesses know that they may be recycled at more than 50,000 RBRC collection sites in the United States and Canada.

Two antennas met on a roof, fell in love and got married. The ceremony wasn't much, but the reception was excellent.

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INTERNATIONAL

Gold medals and green restrooms at the Olympics

While athletes aimed for gold, the Beijing Olympics aimed for green with waterfree urinals. The urinals from Los Angeles-based Falcon Waterfree Technologies have been installed at several Olympic venues.

Falcon Waterfree urinals were installed and used by the general public, staff and athletes at the National Stadium, the National Swimming Center, the Olympic Torch Relay Route, the Olympic Triathlon Track, the Olympic Security Control Center, the Olympic Water Sports Fields and Stadiums, and the BMX Contest Field.

The green-technology urinals use a patented cartridge to provide waterfree, odor-free and trouble-free operation. Because they are not attached to a water

supply, they do not become a source of plumbing emergencies. Restrooms are also cleaner as a result because these systems have five times fewer bacteria than water-flushed urinals and no flush plumes, which normally spread bacteria-laden moisture around restrooms.

Water conservation at the Beijing Olympics has been a key requirement — not only to showcase modern and sustainable technology, but to also help the city of 18 million people accommodate the additional needs of Olympic visitors and athletes.

Based on average water savings of 40,000 gallons per urinal, per year, the 165 waterfree urinals will save 6.6 million gallons per year — enough to fill more than 1,400 tank trucks.

New Zealand government boosts funds for contaminated sites

Four contaminated sites in New Zealand will receive \$150,000 from the Government's clean-up fund, according to Environment Minister Trevor Mallard. The allocations are the first from the Ministry for the Environment's Contaminated Sites Remediation Fund this year. A total of \$890,000 of the \$3.28 million annual fund is contestable by regional councils and unitary authorities through two application rounds per year.

"These contaminated sites need to be cleaned up for the sake of communities and the environment all around New Zealand, and the Government is pleased to be able to partner councils in getting the job done," said Trevor Mallard.

"Six applications were received this time, and four extremely worthy proposals were chosen. Two have previously received money from the Fund and it is great to see the relationship with the councils involved is working well."

Canterbury: Just over \$100,000 in this funding round goes towards Environment Canterbury's site investigation of the "Bankside" pit, a former World War II fuel tank site that has become an illegal dump.

Otago: About \$10,000 goes towards Otago Regional Council's remedial action plan for the third stage of the former Barrow Box sawmill site.

Bay of Plenty: Environment Bay of Plenty gets \$14,000 for its clean-up plan for the Omokoroa Boatyard site where contaminated material is leaching into the valued estuary.

Nelson-Tasman: Nelson and Tasman councils are to receive about \$31,000 towards joint investigations of sheep dips on numerous farms to determine the nature and extent of possible contamination.

"While the Government has prioritized the funding of large scale clean-ups, it's important that smaller projects also get help from the Fund," said Trevor Mallard.

Zero Waste Philippines launched — geared towards cheap green energy

Spectrum Blue Steel Corporation launched the Blueprint for Zero Waste Philippines with the signing of a memorandum of agreement with Morong, Rizal Mayor Joseph Buenaventura for the establishment of a pilot Biosphere Gasification Power Plant.

Morong, Rizal is a small town with a population of only 52,000 people and 10,000 households. It is the site of a forty-hectare sanitary landfill which takes almost 8,000 tons of garbage daily from cities in Metro Manila.

Ronald Shane Flynn, president of Spectrum Blue Steel Corporation, announced that initially, a 1,200 MSW Biosphere facility shall be installed, generating approximately 600 to 700 MW of green energy per day. The generated green energy shall be sold to electric distribution cooperatives at lower prices.

That indigenous source of energy is fast gaining attention from the Arroyo administration and with local executives nationwide.

Flynn has committed to facilitate Philippines' energy sectors transition to a sustainable system with renewable energy as an increasingly prominent viable and competitive fuel option.

The Biosphere process is a gasification which was developed by Dr. Chris McCormack. The process begins with waste delivered to the Biosphere Chamber being converted into clean combustible gas referred to as "syngas". The syngas is used to produce electricity in a combined cycle gas/steam turbine. The heat generated can be used to produce electricity, to superheat steam or to heat boiler-feed water.

INTERNATIONAL

Changes proposed for exemptions of environmental permitting in UK

Proposed changes to the system of environmental permit exemptions will increase waste recovery and recycling, while maintaining high levels of environmental protection and saving businesses money, according to Joan Ruddock, environment minister said.

Defra, the Welsh Assembly Government (WAG) and the Environment Agency are reviewing which waste handling businesses can operate under exemptions, and which require a permit.

An exemption allows certain waste management activities to be carried out without an environmental permit (formerly known as a Waste Management Licence). Exemptions do not free an operator from regulatory control, but provide a proportionate level of regulation for low risk activities which do not pollute the environment or pose a risk to human health.

Joan Ruddock said: "Environmental permits are an essential tool in protecting the environment from the impacts of waste, but the system must be fair, simple and proportionate to risk. The changes we are proposing in the consultation we have published deliver all

those things. Our estimate is that they will also offer real savings for some businesses by cutting red tape and making waste management more efficient, which could be as much as £45m over three years."

The review will be of interest to any business recycling, re-using or disposing of any kind of waste. Most businesses currently operating under an exemption will continue to do so, but under the new proposals businesses may need to renew and re-register their exemptions more frequently to ensure waste registers are up to date. Some businesses that have previously operated under a waste exemption may now need to apply for a permit, while those with an Environmental Permit may be able to register an exemption. It is proposed that the cost to the Environment Agency of regulating the system will be met through a charge for the registration of all exempt waste operations.

The consultation is open through October 23, 2008. To participate, visit www.defra.gov.uk/environment/waste/management/exemptions.

Hazardous waste facility built

China— Dalian Dongtai Industrial Waste Treatment Company, a subsidiary of China Industrial Waste Management, Inc., began the construction of a newly-designed Centralized Hazardous Waste Treatment Facility.

The US\$16 million, 633,956 sq. ft. facility is expected to be in full operation by the second half of 2009.

The project is sponsored by the State Environmental Protection Agency (SEPA) as part of a national plan to construct 55 hazardous waste treatment centers in key locations throughout China.

Upon completion, the facility will include a new hazardous waste incinerator, which will have an annual capacity of 9,000 tons. The new incinerator is designed by the Japanese company Takuma Co., Ltd. and will replace Dongtai's current incinerator.

The new incinerator is specially equipped with a tail gas cleansing system and an online monitoring system in order to ensure all emissions are in compliance with environmental standards.

London makes progress on waste

London— Moves to cut waste, increase recycling, and reduce landfill are continuing to deliver results, according to the latest figures.

The provisional municipal waste statistics show that the efforts of local authorities and householders are paying off.

Municipal waste includes household waste and recycling, as well as waste from parks, public gardens, beaches, civic amenity sites and clearance of fly tips. The latest findings, which cover the period from October to December last year, include:

- Household waste has gone down - from 25.8m to 25.6m tons;
- Less waste has gone to landfill - down from 16.9 to 15.8m tons;
- Recycled household waste is up - now at 33.9 percent; and
- Municipal waste is down overall - from 29.1m to 28.8m tons.

Final figures will be available as part of the annual National Statistics to be released in November 2008.

Magnum acquires facility in Canada

Magnum D'Or Resources, Inc. announced that they have executed a lease with the option to purchase a 98,000 sq. ft. facility in Magog, Quebec, Canada.

The facility is comprised of a 98,000+ sq. ft. mixed-use building located on approximately 10 acres of land in Magog, Canada. Magnum will also produce ultra fine rubber powders, EPDM powders, EPDM compounds, thermoplastics, and thermoplastics elastomers at the plant.

Magnum has received substantial support in its efforts in locating the facility in Magog from the Royal Bank of Canada, as well as the Local, Federal, and Provincial Governing Bodies.

Magnum is currently in negotiations for funding that includes grants, project funding, and financial assistance offered by the Ville de Magog and other government programs offered by both the Quebec and Canadian governments.

WRAP research shows four main barriers to recycling

New research from the Waste & Resources Action Programme (WRAP) has found four main barriers which prevent people from recycling. The study outlines a series of simple steps to help local authorities overcome these barriers. In the last 10 years, recycling rates have increased from 7 to 33 percent and two-thirds of English households are now committed recyclers. This study shows there is great potential for those numbers to go higher if barriers can be overcome.

The study found that the four main barriers are:

- **Physical:** when containers for collecting recycling are unsuitable; when there is no space for storage, when collections are unreliable; when people have no way of getting to recycling sites

- **Behavioral:** if people are too busy; if they struggle with establishing a routine for sorting out recycling; if they forget to put it out

- **Lack of knowledge:** not knowing which materials can be recycled; not understanding how their local scheme works

- **Attitudes and perceptions:** not believing recycling is good for the environment; not wanting to sort waste; not feeling personally rewarded for recycling

WRAP found that very different messages and actions are needed by

local authorities to overcome these barriers. These will include improving recycling collection services, providing better information and practical advice on how to use the service.

WRAP commissioned the research in autumn 2007 to get a more in-depth understanding of what stops residents from recycling or causes them to recycle less than they could. It involved a survey of 1,512 householders from a sample of nine local authorities in England, regionally representative and covering three different types of recycling scheme.

Significantly, for current recyclers (94 percent of the sample), there were significant barriers that prevented them recycling as much as they could.

- **Situational barriers:** 52 percent of current recyclers said they would recycle more if they had collections of a wider range of materials.

- **Behavioral barriers:** 48 percent of current recyclers still binned things because they were not sure they could be recycled.

- **Knowledge and understanding:** less than half the sample (48 percent) understood "very well" what they were supposed to use their recycling containers for.

- **Attitudes:** 86 percent of recyclers would be encouraged to recycle more by seeing the practical impact of their recycling in their local area.

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ZURICH

Events Calendar

October 20th-21st

75th Annual Meeting of the Aluminum Association. The Greenbrier, White Sulphur Springs, West Virginia.
703-358-2975 • www.aluminum.org

October 21st-25th

ARA 65th Annual Convention & Exposition. Hyatt Regency Crown Center, Kansas City, Missouri.
888-385-1005 • www.a-r-a.org

October 21st-23rd

Wastecon 2008. Tampa Bay Convention Center, Tampa, Florida.
800-467-9262 • www.wastecon.swana.org

October 26th-29th

The 2008 National Renewable Energy Marketing Conference. Marriott City Center, Denver, Colorado. 415-561-2135
www.renewableenergymarketing.net

October 28th-29th

NERC's Fall 2008 Conference. Hotel Northampton, Northampton, Massachusetts.
802-254-3636 • www.nerc.org

November 1st-3rd

APRA's 2008 International BIG R Show. Riviera Hotel & Casino, Las Vegas, Nevada.
703-968-2772 • www.bigrshow.com

November 6th-8th

International Autobody Congress & Exposition. Mandalay Bay Convention Center, Las Vegas, Nevada.
888-529-1641 • www.naceexpo.com

February 24th-25th, 2009

Plastics Recycling 2009. Disney Coronado Springs Resort, Orlando, Florida.
503-233-1305 • www.plasticsrecycling.com

BUSINESS BRIEFS

American LaFrance exits bankruptcy

■ American LaFrance, LLC emerged successfully from its Chapter 11 bankruptcy effective July 24, 2008. Concurrent with its emergence from bankruptcy, American LaFrance has announced a significant restructure of its business and a transformation of organization, processes and a segregation of facilities to better serve its product lines in domestic and global markets.

In a major effort to improve profitability, timely delivery and to create room for soon to be announced new ventures, the fire business will be moved from Summerville, South Carolina to the American LaFrance facilities in Ephrata, Pennsylvania and Hamburg, New York according to American LaFrance. Summerville will remain the center of excellence for commercial cab and chassis models, including chassis manufactured for the fire, refuse and construction markets (street sweepers, refuse haulers, concrete pumps, etc.).

Schnitzer acquires three auto parts businesses

■ Schnitzer Steel Industries, Inc. announced that its Auto Parts Business has acquired three self-service used auto parts businesses located in Little Rock, Arkansas and San Antonio, Texas.

Schnitzer purchased the assets and business of U-Pull-It Auto Parts, Inc., U-Pull-It Jacksonville, Inc., and Roosevelt U-Pull-It, Inc., which were previously owned and operated by Gary Johnson.

Universal Package names new general manager

■ Universal Package Systems announced the promotion of Jonathan Brandes to the position of general manager. Brandes has been with the company for the past three years, previously holding a sales position with the fast-growing company.

His new responsibilities include maintaining and improving customer relations, new business development, and plant and warehouse supervision.

Previously, Brandes worked with Tecumseh Corrugated Box Company, working as head designer, before moving into sales with the company. He also spent time with The Servants Incorporated, a paper sheet plant, where he gained experience as a sample maker.

ArcelorMittal acquires Rolanfer Recyclage

■ ArcelorMittal announces it has acquired the outstanding 60 percent of the shares in Rolanfer Recyclage S.A. (Rolanfer), which now gives it 100 percent control over the company.

Rolanfer is based in Yutz (France) near Thionville on the border with Luxembourg and operates a shredder at the port of Illange. Rolanfer specializes in the processing and recycling of scrap metal products including incinerated scrap, shredded scrap, and demolition scrap.

The bulk of its production is delivered to ArcelorMittal sites in Luxembourg. This acquisition will assist in securing the supply of scrap metal to ArcelorMittal operations in the region.

In 2007, Rolanfer's gross turnover was US\$20.6 million and it shipped approximately 86,000 tons of scrap metal for the year. Rolanfer currently employs 24 staff and its new managing director is David Iroz.

AF&PA chooses director of communications

■ The American Forest & Paper Association (AF&PA) announced that Scott Milburn has been named executive director of AF&PA Strategic Communications. Milburn will coordinate AF&PA's communication outreach to industry, policy and opinion leaders, and the media.

Milburn has a background in state and federal government, as well as public affairs consulting. He most recently served as vice president in the issues management practice of APCO Worldwide.

Milburn has an extensive background in public policy communication, having served as press secretary in the White House Office of Management and Budget under directors Joshua Bolten and Rob Portman, and as senior communication advisor to members of the U.S. Senate and House of Representatives, as well as a governor. In all of these positions he worked closely on energy and environmental policy, as well as other issues central to manufacturing and agriculture.

Veolia selects Chicago for new headquarters

■ Veolia Environnement has selected Chicago as its new North American headquarters for the company's four operational groups.

The company has signed a lease for 34,500 sq. ft. of space in Aon Center (200 East Randolph Street).

Veolia Environnement's North American headquarters will house approximately 60 executive managers and administrative personnel from four operational groups focused on water services and technologies, waste services, energy and facility management, and passenger transportation.

Harsco receives 10-year contract from steel plant

■ Harsco Corporation announced that its worldwide mill services division has been awarded a new ten-year contract valued at more than \$60 million over its duration to provide on-site environmental services to ArcelorMittal's Dunkirk steel works in northern France.

Harsco's award includes the construction of a new dehydrating plant that will process the mill's blast furnace and melt shop sludge by-products into reusable filter cake material suitable for use within the steelmaking process, as well as other external applications. The award also includes the screening and blending of various by-product materials for on-site recycling to the mill's sinter plant, which produces materials for charging the mill's three blast furnaces. Work is scheduled to commence at the beginning of 2009.

IronPlanet reports record second quarter in 2008

■ IronPlanet posted record sales in the second quarter of 2008, with gross auction sales of \$91.3 million - an increase of 37 percent over the second quarter of 2007. This year's second quarter represents a 17 percent growth over the first quarter of 2008. The company's year-to-date performance of \$168.9 million is a 70 percent increase over the same period in 2007.

In the second quarter, IronPlanet drew an average of 14,000 visitors per auction, an increase of 35 percent over the second quarter of 2007.

Lovejoy appoints new torsional product manager

■ Lovejoy, Inc. announced the appointment of Greg Taylor as torsional product manager.

Taylor's role is to oversee the marketing, engineering, coordination, and sales efforts for Lovejoy's wide range of torsional couplings. He works directly with distributors and original equipment manager accounts. At Lovejoy, Taylor's goals are to develop innovative products and to grow the torsional products market.

Prior to Lovejoy, Taylor worked as an application manager for Power Great Lakes, Inc. in Wood Dale, Illinois.



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BUSINESS BRIEFS

China Recycling Energy appoints new CFO

■ China Recycling Energy Corp. announced the appointment of Xinyu Peng as chief financial officer, effective immediately.

Peng joins CREG from the Asia offices of Tavistock Group, a global private equity firm. While at Tavistock Group (Asia), Peng was a vice president engaged in investment and financing in Greater China. In the past five years, Peng held CFO positions at Mod3 Cabinets & Home LLC in Tampa, Florida, a manufacturer of wood kitchen cabinets, and at Creative Hospitality Concepts LLC in Tampa, Florida. From 2002 to 2003, Peng was CFO and chief representative of Sino Agri-Tech Inc., under Asia Capital Group.

Total Resource Auctions acquires auction pool

■ Total Resource Auctions' president, Jamie Porter, announced the acquisition of the Texas-based Central Cities Auction Pool business assets and operations. This move expands Total Resource Auctions' national footprint to 56 locations, including five in Texas.

Central Cities Auction Pool president Carroll Estes will continue to run the operation with his wife, Annette, and son, Chad.

Central Cities Auction Pool will continue to offer AIMS Software to customers and run its operating system. In addition, Central Cities Auction Pool will host, manage and maintain AIMS Net.

Brookfield invests in safer recycling technology

■ Brookfield Resource Management, Inc. has invested in an upgrade of its fluid evacuation systems. The upgrade makes Brookfield's Elmsford, New York, recycling facility cleaner, safer and more efficient thanks to new equipment that safely collects and stores fluids from end-of-life vehicles.

Brookfield is the first recycling facility in the state of New York to utilize the specialized equipment capable of collecting nearly all types of automotive fluids. The Seda-Easy Drain, manufactured by Seda Environmental, is a system that uses compressed air to remove virtually all fluids in a safe and efficient manner. All of the vehicle fluids are pumped into dedicated recovery tanks and recycled.

Brookfield's new fluid containment system has huge environmental benefits. The updated process prevents spills and cross-contamination of vehicle fluids.

An English teacher often wrote little notes on student essays. Often she worked late, and as the hours passed, her handwriting deteriorated.

One day a student came to her after class with an essay that had been returned. "I can't make out this comment you wrote on my paper."

The teacher took the paper and, after studying it, sheepishly replied, "It says that you should write more legibly!"

Chuck Schott advances at Smurfit-Stone

■ Smurfit-Stone Container Corporation has named Chuck Schott central region vice president of manufacturing for the company's container division.

Schott joined Smurfit-Stone in 1984 as a production employee at the company's Fargo, North Dakota box plant and has served in a variety of sales and sales management roles throughout his career. He most recently served as area sales manager for the container division's Lake Superior area.

Schott replaces John Yoder, who was recently named the division's vice president of manufacturing services.

New distributor for Badger Shredding named

■ Badger Shredding Products Inc., located in Sturgeon Bay, Wisconsin, announced that Heavy Machines Inc. has been signed up to represent the Badger Shredding line of Shredding Equipment in the States of Alabama, Arkansas, Mississippi, Georgia, Florida, North Carolina, South Carolina and Tennessee.

Neenah Enterprises acquires Morgan's Welding

■ Neenah Enterprises, Inc. and Neenah Foundry Company announced that a newly-created, wholly-owned subsidiary of the Company has purchased substantially all of the business and assets of Morgan's Welding, Inc., a steel fabricator located in Pennsylvania, for a cash purchase price of \$3.85 million, plus the assumption of approximately \$0.3 million of current liabilities, subject to a working capital adjustment. Upon closing, the new subsidiary changed its name to Morgan's Welding, Inc.

The purchase was financed through borrowings under the Company's existing credit facility.

The Company expects this acquisition to significantly improve its ability to service customers in the municipal markets in the Northeastern United States by allowing it to package fabricated steel gratings with its iron casting products, thus offering a more complete array of street drainage products to the marketplace.

Nucor to install a plate heat treating facility

■ Nucor Corporation plans to install a plate heat treating facility at its plate mill in Hertford County, North Carolina. The heat treat line will have an estimated annual capacity of 120,000 tons and will have the ability to produce heat treated plate from 3/16" through 2" thick. Total cost of the project is expected to be approximately \$110 million.

Nucor's plate mill in Hertford County, North Carolina, has an annual capacity of approximately 1.6 million tons. Combined with Nucor's plate mill located in Tuscaloosa, Alabama, Nucor's current annual plate production capacity is approximately 2.8 million tons.

Sukut Construction hires geotechnical expert

■ Sukut Construction Inc., announced the hiring of Ron Bane, a recognized expert in geotechnical construction. He will lead the company's expansion into the growing field of seismic retrofitting and ground reinforcement of the nation's aging infrastructure, including dams and levees.

Bane is one of the few experienced geotechnical project managers in the field, and his arrival positions Sukut to join a handful of companies nationwide, capable of meeting the need for infrastructure retrofit, highlighted most recently by the 2005 breach of levees in New Orleans during Hurricane Katrina and the current Midwest flooding crisis along the Mississippi River.

Bane initially will focus on Sukut's \$54.6 million contract to seismically retrofit the San Pablo Dam in Contra Costa County, California. As senior construction and quality control manager, Bane will be in charge of the two-year project.

Bane comes to Sukut from the American subsidiary of a Japanese geotechnical firm. His recent projects included seismic upgrades of two dams in South Carolina, and an underground seepage control retrofitting of the Waterbury Dam in Waterbury, Vermont, both sponsored by the U.S. Army Corps of Engineers. Bane has managed construction and quality control for more than 200 major earthwork projects and has 10 years of experience in deep-ground improvement, including the cement deep soil mixing that will be performed on the San Pablo Dam retrofitting.

Advanced Disposal acquires Attaway Waste

■ Advanced Disposal Services based in Jacksonville, Florida, has acquired Attaway Waste Services, a Milledgeville, Georgia-based business.

This acquisition will add customers and bridges the gap between adjacent markets in Augusta and Macon, Georgia. Attaway has collection and transfer operations in six Georgia counties. "By consolidating operations between the I-20 and I-16 corridors, Advanced Disposal is better prepared to meet the solid waste collection and disposal needs of the state for many years to come," says Wally Hall, president and chief operating officer of Advanced Disposal.

RockTenn's CEO named 2008 CEO of the Year

■ RockTenn Chairman and Chief Executive Officer Jim Rubright has been selected as this year's RISI North American CEO of the Year for the forest products industry.

Each year, RISI surveys investment analysts and portfolio managers to make nominations for the award, based on such criteria as leadership, vision and strategic accomplishment.

The 2008 award will be presented to Rubright on September 15th at the 23rd North American Forest Products Conference in Boston, Massachusetts. Rubright will also deliver the keynote address and participate in a CEO Panel at the event.

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BUSINESS BRIEFS

Norcal Waste appoints new board member

■ Dennis Wu has joined the board of directors of Norcal Waste Systems, Inc., headquartered in San Francisco.

Wu, who retired in March 2008 as executive vice president and chief financial officer of UCBH Holdings, Incorporated (UCBH), currently serves as a director of UCBH.

Wu joined UCBH after a thirty-seven year career with the public accounting firm of Deloitte & Touche LLP, where he served as national managing partner of the firm's Chinese Services Group since June 2000. Wu served as a partner at Deloitte & Touche LLP from 1979 to 2004, including the partner-in-charge of the firm's Enterprise Group of Northern California.

Sapa's Jack Miller elected to association board

■ Jack Miller, president, Sapa North America Extrusions, Inc., has been elected to the board of directors of The Aluminum Association.

Miller began his career with Alcoa at its Tennessee operations. He held various positions with Alcoa in both the rolling and extruding businesses, including general manager of Alcoa's Europe Extrusions and End Products. He joined Sapa in 2007 as president, North America, headquartered in Pittsburgh, Pennsylvania.

CMC sells \$500,000,000 of senior unsecured notes

■ Commercial Metals Company (CMC), headquartered in Irving, Texas, announced that it has sold \$500 million principal amount of senior unsecured notes due 2018. The notes have a coupon rate of 7.35 percent and were sold at the offering price of \$998.28 for each \$1,000 of principal to yield 7.374 percent to maturity. In anticipation of the offering, CMC entered into a hedge transaction based on then existing Treasury rates, which had the effect of reducing the Company's effective interest rate cost on the notes to approximately 7.29 percent. The notes were assigned a Baa2 rating by Moody's Investors Service, Inc. and Standard & Poor's assigned a BBB rating.

The Company intends to use the net proceeds from the offering to repay its 6.75 percent notes due February 15, 2009, to repay commercial paper, including that incurred to fund the purchase price of recently completed acquisitions, to fund the purchase price of future acquisitions and for general corporate purposes.

Schnitzer Steel declares quarterly dividend

■ The board of directors of Schnitzer Steel Industries, Inc. declared a cash dividend of \$0.017 per common share, payable on September 2, 2008, to shareholders of record on August 18, 2008. Schnitzer has paid a dividend every quarter since going public in November 1993.

Thermo Fisher receives R&D 100 award

■ Thermo Fisher Scientific, Inc. announced that it has been awarded the R&D 100 Award for technological innovation.

An independent judging panel and the editors of *R&D Magazine* selected the handheld Thermo Scientific Niton XL3t XRF analyzer as one of the 100 most technologically significant products introduced into the marketplace over the past year.

This is the third R&D 100 Award for the Niton series, with previous awards coming in 1995 and 2003.

Since they were established in 1963, the R&D 100 awards have been presented annually to the 100 most innovative new technical products and processes of the year. More than 50 outside judges are chosen from among professional consultants, university faculty and industrial researchers. Based on the outside judges' votes and written comments, the editors of *R&D Magazine* make the final choice.

DiMicco appointed to manufacturing council

■ Nucor Corporation chairman, president and chief executive officer Daniel R. DiMicco has been appointed to the United States Manufacturing Council by U.S. Commerce Secretary Carlos M. Gutierrez.

The Manufacturing Council was established to ensure regular communication between the federal government and manufacturing sector. The newly appointed council consists of 14 private-sector executives who reflect the diversity of industry in company size and geography.

DiMicco has been president and chief executive officer of Nucor Corporation since 2000.

Waste Connections to buy Harold LeMay Enterprises

■ Waste Connections, Inc. has entered into an agreement to acquire Harold LeMay Enterprises, Incorporated.

LeMay is the largest privately-owned solid waste services company in the Pacific Northwest with total annual revenue of approximately \$100 million. LeMay provides solid waste collection, recycling and transfer services. The transaction remains subject to customary closing conditions, including regulatory approval and receipt of local municipal consents. Closing is expected to occur in the fourth quarter of 2008.

Waste Connections also announced that it has entered into an agreement with entities affiliated with LeMay to acquire the remaining interests in Pierce County Recycling, Composting and Disposal, LLC (PCRCD), a provider of solid waste disposal, transfer, recycling and composting services, which is currently a majority-owned subsidiary of Waste Connections. Upon completion of this acquisition, PCRCD will become a wholly-owned subsidiary of Waste Connections.

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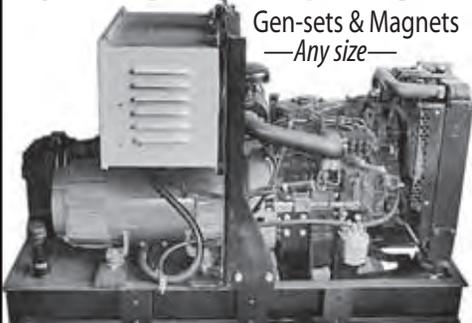
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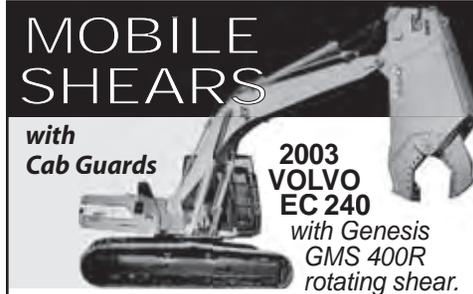
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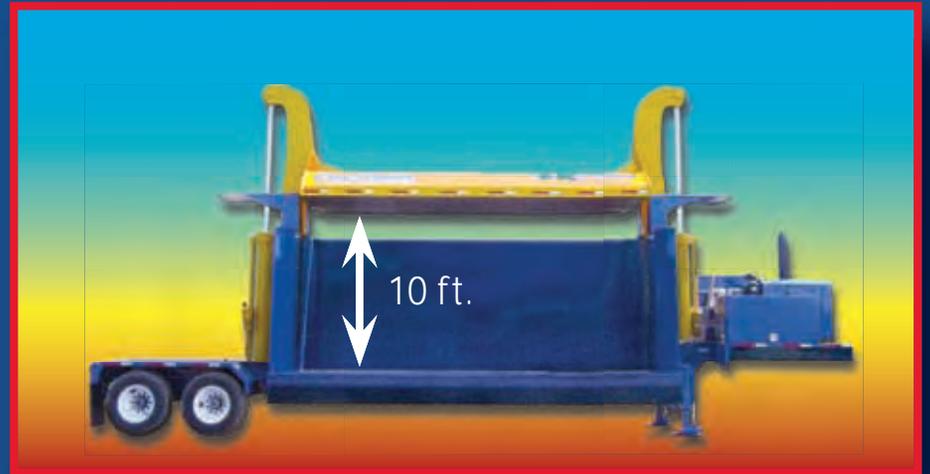
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Republic Services to merge with Allied Waste

PHOTO BY WILL FLOWER

Republic Services rejects Waste Management's second proposal

by Brian R. Hook

The number of major companies in the solid waste industry is about to shrink – whether number three, Republic Services Inc., merges with number two, Allied Waste Industries Inc., or number one, Waste Management Inc., acquires Republic Services.

Fort Lauderdale, Florida-based Republic Services, which announced merger plans with Phoenix-based Allied Waste in June, plans to complete its deal in the fourth quarter, creating a company with combined annual revenue of approximately \$9 billion.

Both boards have approved the all-stock merger, with Allied shareholders set to receive 0.45 shares of Republic Services' stock for each share of Allied Waste stock.

Republic Services will issue 198 million shares of stock to Allied Waste's shareholders and will end up owning 52 percent of the combined company.

Houston-based Waste Management responded with a second, higher offer in August for \$37 a share in cash, representing a premium of 32.6 percent premium over the closing price of Republic Services' stock on July 11th, the day before the first proposal.

Republic Services turned down both offers and reaffirmed its intent to acquire Allied Waste. "Although we are always



Waste Management would rather not see Republic's fleet begin servicing Allied Waste customers.

cognizant of our fiduciary duties, Republic Services has not put itself up for sale as a result of entering into a strategic merger with Allied Waste," says Will Flower, vice president of communications at Republic Services.

"Republic Services continues to believe that the merger between Republic Services and Allied Waste will create significant value generating opportuni-

ties, including significant cost saving synergies, and is in the best interest of stockholders."

Republic Services enacted what is commonly known a poison pill that when triggered allows shareholders to acquire additional shares below market price, increasing the number of shares outstanding and making a takeover prohibitively expensive.

Unless Waste Management offers more money to persuade Republic Services' board to sell instead of merging with Allied Waste, the newly combined company would retain the name Republic Services and be led by James O'Connor, currently chairman and chief executive officer at Republic Services. It would be headquartered in Phoenix.

Continued on Page 3

Waste Management posts decline in second quarter earnings

Company posts higher revenue and increased cash from operations

Waste Management, Inc. announced financial results for its second quarter ended June 30, 2008. Revenue for the second quarter of 2008 was \$3.49 billion compared with \$3.36 billion in the year ago period, an increase of 3.9%. Net income for the quarter was \$318 million,

or \$0.64 per diluted share, compared with \$338 million, or \$0.64 per diluted share, in the prior year period.

The Company noted several items that impacted the results in the 2007 and 2008 second quarters. Results in the second quarter of 2008 included a net \$0.01 per diluted share benefit from income tax items. Results in the second quarter of 2007 included a combined benefit of \$0.08 per diluted share, consisting of \$0.05 per diluted share from income tax

items and \$0.03 per diluted share from divestitures of under-performing operations.

Excluding those items, earnings would have been \$311 million, or \$0.63 per diluted share, in the second quarter of 2008 compared with \$296 million, or \$0.56 per diluted share, in the second quarter of 2007. This is a 12.5% increase in adjusted earnings per diluted share.

Income from operations as a percent of revenue was 18.1% in the second

quarter of 2008. This is a 20 basis point improvement compared with the second quarter of 2007, as adjusted for the items noted above.

For the six months ended June 30, 2008, Waste Management reported operating revenue of \$6.76 billion, compared with \$6.55 billion for the same period last year. Net income was \$559 million, or \$1.13 per diluted share, for the six months ended June 30, 2008, compared

Continued on Page 2



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Senate passes legislation to clean up railway waste

In August, the Senate passed legislation authored by United States Sen. Frank R. Lautenberg (D-NJ) to allow states to regulate solid waste processing facilities along rail lines. It was included as part of larger rail safety legislation also sponsored by Lautenberg.

The rail waste legislation is based on Lautenberg's Clean Railroads Act of 2007, which targets a loophole in federal law that prohibits states from enforcing environmental, health and safety regulations at these rail sites. This loophole has allowed railroad companies to pile trash, largely consisting of construction debris, at times two stories high, that can cause serious health and environmental risks to residents who live near these sites.

"Our backyards should not become junkyards for industry. Our towns and cities need to be able to protect their

PHOTO BY NIKHIL GANGAVANE | DREAMSTIME



Railway waste legislation aims to clean up rail-based waste transfer stations.

communities from fire hazards and pollution caused by waste on rail sites," Sen. Lautenberg said.

Courts have ruled that the only agency that can oversee rail waste sites is the federal Surface Transportation Board (STB); however, the Board does not actively regulate them. No federal safety or environmental standards exist and the agency has no inspectors. In fact, the Board has prevented any state from regulating rail solid waste sites within their borders, including 22 current or proposed ones in New Jersey.

Lautenberg's Clean Railroads Act of 2007, which was cosponsored by Sen. Robert Menendez (D-NJ), would make regulation of these sites permanent. The House version of the rail waste legislation was written by Rep. Frank Pallone (D-NJ-06). Now, the House and Senate must resolve their differences in the larger rail safety bills before finalizing the legislation and sending it to the President for signature.

Also in August, the Senate Appropriations Committee approved an extension of a temporary measure authored by Sen. Lautenberg to allow New Jersey to begin to regulate some solid waste processing facilities on railroads. The measure was included in a one-year spending bill for transportation and housing programs and became effective in January, but expires after September.

Sen. Lautenberg serves as Chairman of the Senate Commerce Committee's subcommittee on Surface Transportation and Merchant Marine Safety, Security, and Infrastructure. The Senator's subcommittee has jurisdiction over railroad issues and oversees the confirmation of STB Commissioners.

Puerto Rico SWMA takes steps to close non-compliant landfills

Major progress has been made over the past few years in improving the way solid waste is managed in Puerto Rico, according to United States Environmental Protection Agency (EPA) Regional Administrator, Alan J. Steinberg. Steinberg spoke about several solid waste achievements at a ceremony at the Yolanda Guerrero Cultural Center. The Agency praised the Puerto Rico Solid Waste Management Authority (SWMA) for developing a plan to handle municipal garbage throughout the island and announced it has secured an agreement with the municipality of Toa Baja to close its landfill.

EPA, the municipality of Toa Baja, P.R., and Landfill Technologies, Inc., have agreed in principle to an administrative order on consent that outlines a plan to stop receiving waste at the main part of the Toa Baja landfill by June 2010, with steps to close the landfill completely to follow. This is the fifth order issued by EPA requiring a landfill in Puerto Rico to close since 2007; the other landfills are in Vega Baja, Florida, Aguadilla and Santa Isabel.

"I'm gratified that an agreement has been reached to close the Toa Baja landfill in an orderly and environmentally protective way," said Steinberg. "Closing landfills that do not meet environmental

standards in Puerto Rico has been an EPA priority and we have received invaluable support from the Puerto Rico Solid Waste Management Authority on this goal."

The SWMA plan to handle solid waste, the Dynamic Itinerary for Infrastructure Projects, outlines priorities for managing waste in the Commonwealth, which has long been a challenge for its government.

The 105-acre Toa Baja landfill was created in 1994 when landfills operated by the municipalities of Toa Baja and Bayamón merged. Toa Baja has owned the landfill since 2005, and Landfill Technologies, Inc., manages the landfill. SWMA estimated that in 2003 the Toa Baja landfill accepted approximately 500,000 tons of waste, mostly household and commercial solid waste.

Ongoing inspections of the landfill found it lacking operating controls, sufficient security, leachate and stormwater discharge controls, and groundwater and explosive gas monitoring systems. The landfill also lacked a landfill gas control and collection system.

The agreement to close the landfill is governed by the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act, or RCRA.

PHOTO BY MICHAEL ZYSMAN | DREAMSTIME



Solid waste management practices in Puerto Rico are being overhauled. Non-compliant landfills are to be closed in an environmentally sound manner.

Detroit not to purchase Covanta incinerator

Detroit mayor Kwame Kilpatrick has announced that the city will not purchase the waste-to-energy plant that has processed approximately two-thirds of the city's waste since it was built in 1991.

This decision comes after last month's announcement that the city would not renew its lease with the plant operators, Covanta Energy. Instead, the city, one of a few that does not currently have a recycling program already in place, plans to implement a pilot curbside recycling program and send the rest of the trash to landfills.

The city accounts for almost a third of the trash that the incinerator burns, and should the city stop sending trash, the incinerator may be hard pressed to remain in operation. But despite the city's plans, a contract provision dictates that the plant owners, Energy Investors funds of Boston, may require waste to be incinerated if the plant can match or beat local landfill bids.

Houston solar project granted \$50,000 by EPA

The City of Houston has been awarded \$50,000 from the Environmental Protection Agency (EPA) to help develop a solar energy plant on the site of a former landfill.

Funding for the project is part of more than \$500,000 in grants announced by the EPA for 16 Brownfields Sustainability Pilots nationwide.

"EPA continues to use the brownfields program to stimulate both environmental and economic success," said EPA Regional Administrator Richard E. Greene. "These pilots will demonstrate best practices that can be used by other communities across the country."

The Houston project seeks to revitalize a 300-acre former landfill site located near downtown. Funding from EPA will help with evaluating the various environmental, engineering, and regulatory issues involved in the project. Assistance will also help conduct solar energy production and financial feasibility studies.

WM earnings

Continued from Page 1

with \$576 million and \$1.09 per diluted share, respectively, for the same period in 2007.

Acquisitions contributed 1.0% to higher revenue in the quarter, while divestitures caused a 0.8% decline in revenue in the quarter.

Operating expenses were 62.5% of revenue, up from 62.3% of revenue in the same period in 2007. Excluding the impacts of higher diesel fuel prices and higher recycling commodity prices on both operating expenses and revenue, operating expenses were 61.0% of revenue in the second quarter of 2008, or a 130 basis point improvement compared with the prior year period.

Republic Services second quarter earnings decline

Republic Services, Inc. reported that revenue for the three months ended June 30, 2008 increased 2.4 percent to \$827.5 million compared to \$808.4 million for the same period in 2007.

The Company's internal growth during the period was 3.9 percent, with a 7.0 percent increase from price, partially offset by a 3.1 percent decrease in volume. Net income for the three months ended June 30, 2008 was \$62.3 million, or \$.34 per diluted share, compared to \$87.2 million, or \$.45 per diluted share, last year.

The Company's income before income taxes for the three months ended June 30, 2008 includes a \$34.0 million pre-tax charge (\$21.8 million, or approximately \$.12 per diluted share, net of tax) related to environmental conditions at the Company's Countywide Recycling and Disposal Facility in Ohio. Net income for the three months ended June 30, 2007 includes a tax benefit of \$5.0 million, or approximately \$0.03 per diluted share, related to the effective closing of the Internal Revenue Service's audits of the Company's consolidated tax returns for fiscal years 2001 through 2004.

Operating income for the three months ended June 30, 2008 was \$119.6 million, or 14.5 percent of revenue, compared to \$153.1 million, or 18.9 percent of revenue, for the same period last year. Excluding the \$34.0 million charge to operating expenses for the Company's Countywide Recycling and Disposal Facility, operating income for the three months ended June 30, 2008 would have been \$153.6 million, or 18.6 percent of revenue.

Revenue for the six months ended June 30, 2008 increased 2.1 percent to \$1,606.7 million from \$1,574.0 million

for the same period in 2007. Net income for the six months ended June 30, 2008 was \$138.4 million, or \$.75 per diluted share, compared to \$141.1 million, or \$.72 per diluted share, for the same period last year. The Company's income before income taxes for the six months ended June 30, 2008 includes a \$34.0 million pre-tax charge (\$21.8 million, or approximately \$.12 per diluted share, net of tax) related to environmental conditions at the Company's Countywide Recycling and Disposal Facility. The Company's income before income taxes for the six months ended June 30, 2007 includes a \$22.0 million pre-tax charge (\$13.5 million, or approximately \$.07 per diluted share, net of tax) related to environmental conditions at Countywide.

Operating income for the six months ended June 30, 2008 was \$261.8 million, or 16.3 percent of revenue, compared to \$267.8 million, or 17.0 percent of revenue, for the same period last year.



James E. O'Connor, chairman and CEO of Republic Services

National Solid Wastes Management Association in Washington D.C. "Acquisitions have always been a basic and important part of the solid-waste industry's business profile," Parker says.

The industry's leader, Waste Management, was created in a 1998 merger of USA Waste with the old Waste Management. Allied Waste moved from the number three spot to the second largest by merging with Browning Ferris Industries in 1999. Republic Services was spun out of Republic Industries in an initial public offering in 1998.

Solid-waste companies today are more focused on pricing discipline to maximize return on invested capital for shareholders, Parker says. This helps to generate free cash flow, and increases profit margins, what remains from sales after a company pays out the cost of goods sold.

Anti-trust issues are not expected to be a problem with either proposed deal. Both Republic Services and Waste Management filed a Hart-Scott-Rodino notification with the United States Department of Justice, activating a review of the proposed mergers.

Alternative fuels to power Anheuser-Busch breweries

More than five billion twelve-oz. servings of beer – or about one in seven beers brewed by Anheuser-Busch in the United States – are expected to be brewed using renewable fuel by the end of 2009, thanks to efforts at the company's 12 United States breweries. The company's breweries in Houston and Fairfield, California, are currently installing alternative energy technology that will be operational by year end, and as a result the company's breweries will run on more than 15 percent renewable fuel.

The Houston brewery will use biogas from a nearby landfill as part of an alternative fuel plan that when combined with the facility's bio-energy recovery system (BERS), is anticipated to provide more than 70 percent of the brewery's fuel needs. The Fairfield brewery will use BERS, and receive electricity from solar panels being hosted on-site.

Anheuser-Busch has entered into an agreement with Ameresco McCarty Energy to purchase biogas from Allied Waste Services' McCarty Road Landfill in Houston. Currently, some of the biogas from the McCarty Road Landfill is being captured, processed and sold to a local utility, while the excess is flared. Ameresco plans to capture some of that unused biogas and transport it to the Anheuser-Busch brewery through a six-mile underground pipeline.

The Fairfield brewery will generate 15 percent of its fuel needs from a Bio-Energy Recovery System (BERS) that is currently under construction. BERS technology turns nutrients in brewing wastewater into renewable biogas that is used to decrease the use of natural gas. In addition, the Fairfield brewery has entered into an agreement with SunEdison to host a solar power plant on the



Anheuser-Busch is brewing green beer in alternative fuel-powered breweries.

brewery's property. The solar energy system will generate the equivalent of approximately three percent of the brewery's electricity needs and also generate Renewable Energy Certificates (RECs) for businesses or individuals to purchase to offset their use of fossil fuel energy and greenhouse gas emissions. The 1.18 megawatt (DC) photovoltaic system will be constructed during the late summer.

Once the Houston and Fairfield projects are operational, 10 of Anheuser-Busch's 12 United States breweries will be producing renewable fuel. Plans are currently underway to construct the 11th BERS in Williamsburg, Virginia in 2009. The company's brewery in Fort Collins, Colorado does not operate a BERS but applies nutrient-rich brewery wastewater to nearby land to grow crops that can be turned into biofuel. Anheuser-Busch is also exploring the use of wind, solar, wood and landfill gas at several other breweries.

Merger news

Continued from Page 1

Republic Services expects to generate \$150 million annually in synergies. It has already put together a team to identify possible savings. Republic Services and Allied Waste have also retained Deloitte Consulting LLP to advise the companies on synergies.

There are a lot of overlapping businesses between Republic Services and Allied Waste that could be combined, says Stewart Scharf, an analyst with Standard & Poor's in New York. To hit the \$150 million mark for the synergies, he says it is important for Republic Services to control costs while competing for pricing and market share.

"Republic Services has good growth potential," he says, adding that the combined company could become a formidable, national competitor to Waste Management.

Solid-waste companies usually merge to gain either revenue growth or market share, says Bruce Parker, president and chief executive officer of the

If regulators follow historical precedent and focus on local instead of national market share, either deal has a high probability of clearing regulatory hurdles, says Brian Butler, an analyst with Friedman Billings Ramsey Group, Inc. in Arlington, Virginia.

Depending on the amount of divestitures required by regulators, a merger might create more opportunities for smaller haulers to acquire market share, Butler says.

"The primary motivation behind both of these deals is strategic," Butler says. "Under either scenario the combined company will have increased control over landfill and transfer stations, which should reduce risk of a competitor lowering prices."

Cultural issues between merged companies are also not expected to be a problem with either proposed deal, says Corey Greendale, an analyst with First Analysis Securities Corp. in Chicago, noting that a lot of industry executives have moved back and forth between the companies. "I think they are familiar with each other's culture," Greendale says.

In terms of finding synergies, however, it's never easy, Greendale says.

"Synergies are always a part of the rationale for doing big acquisitions. Sometimes it works out and sometimes it doesn't," Greendale says, adding that half of the expected \$150 million in synergies cited by Republic Services would come from selling, general and administrative expenses, which combines salaries, commissions, and travel expenses for executives, along with any advertising costs and payroll expenses.

Neither transaction, whether Republic Services merges with Allied Waste or Waste Management acquires Republic Services, has negative implications for the solid-waste industry, says Leone Young, an analyst with Citigroup Inc. in New York.

"We retain our positive stance on the group, given the positive industry and pricing dynamics that have been demonstrated," Young writes in a note to clients. "Over the near term, however, as this process continues, we expect to see continued, significant volatility in any given name, depending on which punches are thrown and by whom."

Second quarter profits up 22% at Allied Waste

Allied Waste Industries, Inc. reported financial results for its second quarter and six months ended June 30, 2008.

For the quarter, income from continuing operations increased 22% to \$111.4 million, or \$0.25 per share, inclusive of net charges of \$0.02 per share, primarily associated with merger-related costs. On an adjusted basis, 2008 second quarter earnings per share were \$0.27, an increase of 29% over prior earnings of \$0.21 per share.

Total revenue for the second quarter was a record \$1.58 billion, an increase of \$35 million, or 2.2%, over \$1.55 billion in the second quarter 2007. Higher revenue for the quarter benefited from a 6.9% increase in average price, of which 280 basis points were associated with the company's fuel recovery fee, partially offset by a 4.8% decrease in volumes. Lower volumes for the quarter primarily reflect the impact of U.S. economic conditions.

For the six-month period ended June 30, 2008, Allied Waste's revenues were \$3.07 billion, as strong pricing drove a \$74.4 million increase over the prior year. Operating income for the period increased 6.7% to \$543.8 million, inclusive of \$32.8 million of merger-related costs, losses from divestitures and asset impairments. Income from continuing operations was \$184.0 million for the first half of 2008, compared with \$125.3 million for the first half of 2007. Diluted income from continuing operations increased to \$0.42 per share, compared with \$0.29 per share in the prior year.

Gasrec, Veolia and Iveco commence CBM trial

Gasrec, the UK's first commercial producer of liquid biomethane fuel, Veolia Environmental Services, the UK's largest waste management company, and full range commercial vehicle manufacturer Iveco, announced the commencement of a commercial trial of a liquid gas fuel.

Veolia is testing compressed biomethane (CBM), which is produced from gas extracted from a landfill. The natural gas-powered daily light commercial vehicle in use for the trial is one of the latest generation of natural gas-powered vehicle manufactured by Iveco and was supplied by Gasrec to Veolia Environmental Services. Gasrec will provide CBM for a trial lasting six months and

the performance of the fuel will be measured against existing vehicles running on Compressed Natural Gas (CNG). The vehicle will be refueled at a CBM refueling station installed by Gasrec at Camden Council's York Way depot.

The project aims to demonstrate that biomethane is a commercially competitive and environmentally sound fuel that can be directly substituted for natural gas. The Government considers biomethane to be the most sustainable bio-fuel in terms of impact on resource depletion in relation to alternatives such as biodiesel and ethanol. Biomethane also has the lowest carbon intensity of all commercially available biofuels – on

a well-to-wheel basis, biomethane reduces CO2 emissions by up to 70% in comparison to fossil diesel, with the potential to significantly improve local air quality. 1.1 tons of CBM is also equivalent to 317 gallons of diesel, which is sufficient to fuel a 49-ton heavy goods vehicle for an entire week.

This new fuel is also designed to bring an end to any issues associated with the quality of natural gas available in the UK and offers fleet operators a serious and renewable alternative. Gasrec supplies the fuel by tanker in liquid form for bunkered storage – providing an ideal solution for applications where vehicles operate on a regular back-to-base cycle.

Waste Connections sees second quarter increase

Waste Connections, Inc. announced its results for the second quarter 2008.

Revenue totaled \$267 million, a 10.8% increase over revenue of \$241.1 million in the year ago period. Operating income was \$55.6 million versus \$53.8 million in the second quarter of 2007. Net income in the quarter was \$26.2 million, or \$0.39 per share on a diluted basis of 67.8 million shares.

For the six months ended June 30, 2008, revenue was \$517.3 million, a 12.5% increase over revenue of \$460 million in the year ago period. Operating income was \$106.4 million versus \$100.2 million for the same period in 2007. Net income for the six months ended June 30, 2008, was \$49.4 million, or \$0.73 per share on a diluted basis of 68.0 million shares.

Valhi announces WCS to begin construction at Andrews County site

Valhi, Inc. announced that its wholly-owned subsidiary, Waste Control Specialists, LLC (WCS), has awarded a three-year, \$80 million contract to URS to lead the design and construction of new permanent disposal facilities and infrastructure improvements at WCS's site in Andrews County, Texas.

These new facilities will enable WCS to begin operations under its license issued by the Texas Commission on Environmental Quality (TCEQ) in May 2008 to dispose of radioactive byproduct material and enhance its bulk waste handling and disposal capabilities.

The URS contract contains three separate elements:

- The addition of a railroad loop and facilities for unloading hazardous waste materials from rail cars;

- Construction of the byproduct disposal landfill; and

- Construction of a low-level radioactive waste (LLRW) disposal and fill facility upon the TCEQ's approval of WCS's pending LLRW disposal license application.

The WCS facility in Andrews County, Texas is currently licensed for the processing, storage and disposal of a broad range of hazardous, toxic and byproduct wastes and certain types of low-level and mixed low-level radioactive wastes.

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Republic Services agrees to pay \$1 million

Republic Services of Southern Nevada, the current operator of the Sunrise Mountain Landfill located in Clark County, Nevada, has agreed to take necessary steps to remedy the situation at the site and to pay a \$1 million civil fine in order to resolve alleged violations of the Clean Water Act, the Justice Department and United States Environmental Protection Agency announced.

The consent decree, filed in the United States District Court in Las Vegas, requires Republic Services of Southern Nevada to implement extensive stormwater controls, an armored engineered cover, methane gas collection, groundwater monitoring and long-term operation and maintenance.

"Today's settlement will minimize the risk to Clark County residents from polluted water runoff and hazardous waste discharges from the Sunrise Mountain landfill," said Ronald J. Tepas, assistant attorney general for the Justice Department's Environment and Natural Resources Division. "This settlement reflects the federal government's commitment to protecting valuable natural resources like Lake Mead and its watershed."

The settlement will ensure effective long-term control of the landfill, which contains over 49 million cubic yards of waste. The remedy, which is expected to take roughly two years to build, will be designed to withstand a 200-year storm and is expected to cost over \$36 million. Upon completion, the remedy is estimated to prevent the release of over 14 million pounds of contaminants annually, including stormwater pollutants, methane gas and landfill leachate.

"Landfill operators must ensure that effective safeguards are in place to protect the environment and nearby communities," said Wayne Natri, administrator of the EPA's Pacific Southwest region. "With today's agreement, Republic is required to properly close the landfill and ensure long-term waste containment."

Sunrise Landfill, a 440-acre closed municipal solid waste landfill, is located three miles outside of Las Vegas city limits. The landfill cover failed during a series of storms in September 1998, sending waste into the Las Vegas Wash. The landfill is located two miles above the Las Vegas Wash, which discharges directly into Lake Mead — a primary

drinking water resource for southern Nevada, including the Las Vegas metro area, as well as the lower Colorado River, the Phoenix metro area and southern California.

The landfill was operated on behalf of the County by entities related to Republic Services of Southern Nevada from the 1950's through 1993. Following the landfill cover failure in 1998, the EPA ordered Republic Dumpco, a company related to Republic Services of Southern Nevada, and the Clark County Public Works Department to correct violations of the federal clean water laws and to immediately stabilize the site.

Sunrise Mountain Landfill is unlined and contains more than 49-million cubic yards of waste including: municipal solid waste, medical waste, sewage sludge, hydrocarbon-contaminated soils, asbestos and construction waste.

The proposed consent decree, lodged in the U.S. District Court for the District of Nevada, is subject to a 30-day public comment period and approval by the federal court.

Oakleaf appoints three to its board of directors

Oakleaf has announced the appointment of William T. Monahan to its board of directors. Monahan has more than 35 years of experience in global business development in a variety of industries including telecommunications, manufacturing and electronics.

Most recently, Monahan was chairman and acting chief executive officer of Novelis, Inc., a \$6 billion dollar manufacturer of aluminum rolled semi-finished products. Monahan served on the Novelis board of directors for many years, guiding it through its recently completed sale to India's Hindalco Industries.

They also announced the appointment of Ronald Tysoe to its board. Tysoe, who has more than 20 years experience in the retail, finance and real estate investment industries, is a principal at The Hauser, Davis & Tysoe Group, an investment group based in Cincinnati, Ohio.

Lawrence V. Jackson was the third to be appointed to the board. Jackson has been recognized for over three decades for his proven leadership with some of the nation's leading Fortune 500 companies. He is well versed in numerous industry sectors including retail operations and possesses vast experience in management, operations, sales and procurement.

Prior to his appointment to Oakleaf's board of directors, Jackson was president and chief executive officer of Global Procurement at Wal-Mart Stores, Inc., where he led strategic planning and sustainability efforts — key initiatives that garnered Wal-Mart unprecedented success. Additionally, Jackson was responsible for global purchasing for Wal-Mart, successfully leading efforts of purchasing offices in over 28 countries.

Dolphins are really intelligent. Within only a few weeks of captivity, they are able to train Americans to stand at the edge of the pool and throw them fish.

Honeywell helps growing demand for solar panels

Honeywell announced that it will design and install the core process and safety systems for a new plant under construction by Hoku Materials, Inc., a wholly-owned subsidiary of Hoku Scientific, Inc. that is planned to produce polysilicon, a key material needed to produce solar panels. The solar power market is currently estimated to be a \$10 billion business, with potential to expand to \$30 billion by 2010. Serving as the main automation contractor and sole automation equipment supplier, Honeywell will engineer an integrated solution that will help the Pocatello, Idaho plant produce 3,500 tons of polysilicon per year. The system will include distributed control, batch management and safety technology.



PHOTO BY JCOLL | DREAMSTIME

Honeywell will design and install the core processes and safety systems for Hoku Materials' new polysilicon production plant.

Jamestown landfill to close

Sukut Construction, Inc. broke ground in July on a \$5.9 million project to re-close the Jamestown Landfill.

This closure project is critical for Tuolumne County as they face stiff fines from the state of California if the problem isn't resolved by the end of the year. Sukut, which has successfully completed more than 50 major landfill projects, including the closure of six sites, has installed more than 40 million square feet of landfill liner.

Sukut will be required to reconfigure grades over 18 acres of the landfill, relocate about 100,000 cubic yards of refuse, and finally reconstruct the liner, drainage layer and soil cover layers for the project. The project will create a soil buttress on one edge, and install surface drainage features as well as new gas wells.

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Horse waste to turn green via new technology from MaxWest

MaxWest Environmental Systems, Inc. and Florida Thoroughbred Breeders' and Owners' Association (FTBOA) have announced a partnership to convert horse waste into renewable energy.

Ocala/Marion County is home to 431 thoroughbred breeding and training farms covering more than 70,000 acres of Florida's pastures. The disposal of horse/stall waste is a problem that increasingly draws the attention of state and local government agencies. Currently, individual farms are responsible for the disposal of stall waste. MaxWest's gasification technology will provide FTBOA members with a convenient, environmentally friendly method of horse manure disposal.

Horse waste will be trucked from farms, training centers, sales companies, and other equine facilities across Marion County to a site owned and managed by the partnership. The manure will be mixed with wood waste and then gasified in MaxWest's integrated gasification system

to produce renewable thermal energy, which will then be used to produce "green" electric power for sale to the power grid.

The facility is expected to convert upwards of 100,000 tons of stall and wood waste per year. The process should produce approximately 7.2 megawatts of exportable energy daily, enough to power over 1,400 homes.

Most recently, MaxWest has focused its technology on working with municipalities to convert biosolids to green energy at wastewater treatment plants and is presently talking with Florida dairies and cattle feedlots across the United States. The FTBOA project is its first expansion into working with horse waste.

The MaxWest system works with wood, crop wastes, and other forms of carbon-based wastes such as plastic. MaxWest systems are presently operating at facilities converting wood, cow, chicken, and mixed wastes.

Veolia Environmental Services to recover ethanol from waste

Veolia ES Technical Solutions, LLC, the hazardous waste division of Veolia Environmental Services, is beginning ethanol recovery services at its newly acquired Medina, Ohio facility.

*"Very little has been done in the area of recovering ethanol from waste."
-Phillippe Martin*

Waste materials from industrial manufacturing and consumer goods that contain ethanol will undergo a process to recover it for reuse. Veolia ES Technical Solutions will also provide secure packing destruction for off-specification alcoholic beverages in conjunction with the ethanol recovery process. The recovered ethanol can then be used as fuel to replace or supplement gasoline.

"This is yet another step in our growing list of recycling technologies

that include organic and inorganic processes to recover mercury, metals, and solvents," explained Philippe Martin, president and CEO of Veolia ES Technical Solutions.

The operation will support ethanol production from industrial, non-alcoholic and alcoholic wastes. Waste products are sent through equipment that destroys or recycles the packaging and separates out the liquids. These liquids are transferred to a recovery process that removes most water and contaminants. The final ethanol product is then subject to a rigorous specifications review, and when met, will be sold as fuel.

Veolia ES Technical Solutions process is relatively new in the area of recovering and producing ethanol. "Most ethanol plants in the United States use food products, mainly corn, to produce ethanol, but very little has been done in the area of recovering ethanol from waste," said Martin.

Industries that will benefit from Veolia ES Technical Solutions waste-to-ethanol service include food and beverage distributors, especially breweries and wineries, biotechnology, pharmaceutical, chemical and consumer goods manufacturers.

MONTHLY CROSSWORD

BY Myles Mellor

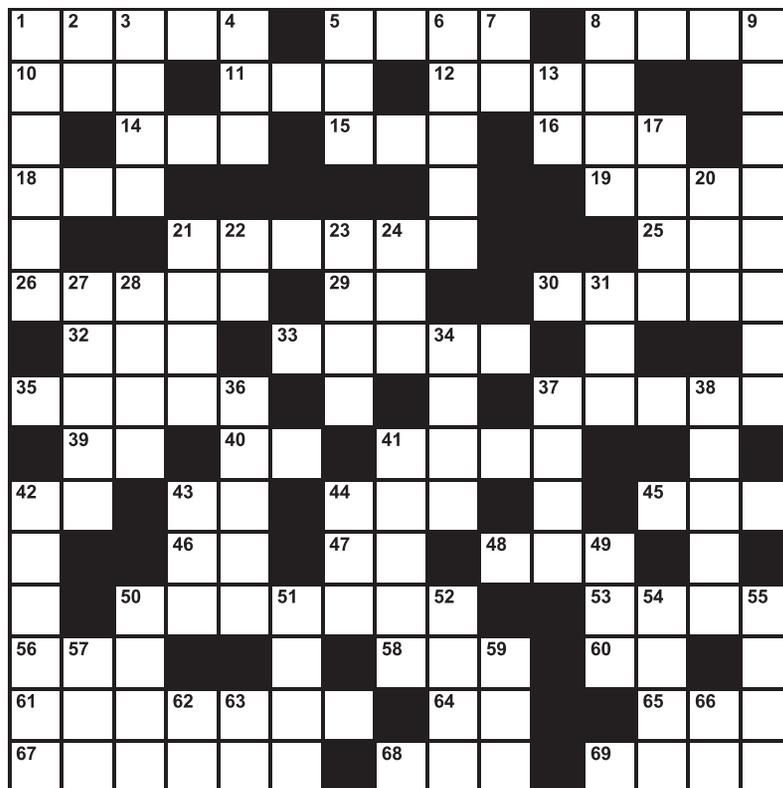
SOLUTION IS FOUND ON PAGE B7

ACROSS

1. ___ scrap, this kind of scrap has reached a record level of \$600 per ton
5. Bottle ___, law requiring deposits on beverage containers
8. Gay ___ Container, the trade name for a large, reusable container used for shipping materials
10. Car or man followers
11. Crude substance
12. Data
14. Asset evaluation worksheet, for short
15. Recyclable can type
16. Long ___, 2,240 pounds
18. Feminine ending
19. Water-well feature
21. Machine that flattens aluminum cans
25. The average American uses 650 ___ of paper per year
26. Sopranos group
29. Nurse, abbr.
30. Thin slat of wood
32. Not well
33. RFID part
35. Paper that has been discarded in the manufacturing process in the paper mill
37. Trailblazer?
39. Gross!
40. Shakespeare's you
41. Arctic transportation
42. Chargers' home, for short
43. Life energy in Chinese philosophy
44. Power plant that uses municipal solid waste as a part of its fuel supply
45. Used beverage cans
46. Light switch option
47. Poet, Cummings
48. Common plastic resin used in beverage containers
50. Switching to this type of television may cause an increase in electronic recyclers' workload
53. Record onto CD
56. The girl from Ipanema came from here
58. Cut off
60. Oakland team
61. Nature's way of recycling
64. Popular Nevada city, for short
65. Adam's apple girl
67. Gas-to ___, project that converts gas from landfills into electricity
68. Concentrated load capacity
69. Water wasting faucet problem

DOWN

1. Single ___ recycling, aka fully commingled recycling
2. Tellurium symbol
3. ___tomer, material which can be stretched but will return to its original length



4. LDPE part
5. Deli order, abbr.
6. Barrier designed to prevent the leaching of contents from a landfill
7. Lane, abbr.
8. Closed-___ recycling, recycling materials into their original form
9. Garbage container
13. Length measurement, abbr.
17. ___ and void
20. Business degree
21. Swindle
22. Hollywood's home
23. Prepare a present
24. Front ___ loader, commercial solid waste collection truck type
27. Was on TV
28. ___ Control Law, local ordinance controlling the collection of municipal solid waste
31. Pressure measure
34. Engine purr
36. Looking at
37. One of the most commonly recycled plastics
38. Fire remains

41. Take without asking
42. ___ reduction, an action to reduce waste at the point of generation
43. Carp
44. Damp
49. To be announced...
50. Round tent type
51. "The ___, bitsy spider..."
52. Hang around
54. PC operator
55. The legal-for-trade certification program for weighing devices
57. Positive or negative particle
59. Plastic used for plumbing pipes
62. Public relations, for short
63. Football position, abbr.
66. Roman 6

Stericycle reports results for second quarter 2008

Stericycle, Inc. reported financial results for the second quarter of 2008. Revenues for the quarter ended June 30, 2008 were \$277.8 million, up 19.3% from \$232.8 million in the same quarter last year.

Acquisitions less than 12 months old contributed approximately \$18.0 million to the growth in revenues for the quarter. Gross profit was \$123.2 million, up 17.8% from \$104.5 million in the same quarter last year. Gross profit as a percent of revenue was 44.3% versus 44.9% in the second quarter of 2007.

Net income for the second quarter of 2008 was \$38.7 million or \$0.44 per diluted share compared with net income of \$32.0 million or \$0.36 per diluted share for the second quarter of 2007.

For the six months ended June 30, 2008, revenues were \$532.6 million, up 20.0% from \$443.9 million in the same period last year. Gross profit was \$236.7 million, up 19.1% from \$198.8 million in the same period last year. Earnings per diluted share increased 16.2% to \$0.79 from \$0.68 per diluted share in the same period last year. Earnings per diluted share for the six months ended 2008 were negatively impacted by \$0.04 per diluted share related to the arbitration settlement recorded in the first quarter of 2008.

Man blames fate for other accidents, but feels personally responsible when he makes a hole-in-one!

Fulcrum Bioenergy to build MSW-to-ethanol plant

Fulcrum BioEnergy, Inc. announced that it is advancing next-generation ethanol production with its plans to build one of the first commercial-scale production facilities for converting municipal solid waste to ethanol. The plant will process municipal solid waste, creating a low-cost, reliable and environmentally-clean renewable transportation fuel.

When it begins operations in early 2010, the Sierra BioFuels plant is expected to produce approximately 10.5 million gallons of ethanol per year, and to process nearly 90,000 tons per year of municipal solid waste that would otherwise have been disposed of in landfills. Fulcrum BioEnergy will design, finance, construct, own and operate the plant, which will be located in Storey County, Nevada. This late-stage development project is expected to cost approximately \$120 million.

The Sierra BioFuels plant is the first of several projects that Fulcrum is currently developing across the country. The plant will utilize gasification technology licensed from Integrated Environmental Technologies and a licensed proprietary catalytic technology for converting synthesis gas to ethanol jointly developed by Nipawin Biomass Ethanol, New Generation Co-operative Ltd., and Saskatchewan Research Council.

Fulcrum BioEnergy is collaborating with waste hauling and disposal companies around the country to revolutionize the disposal of solid waste. Because Fulcrum converts post-recycled organic waste, it adds another layer of recovery and recycling to conventional processes. Fulcrum's facilities therefore do not compete or interfere with communities' established recycling programs.

Five Puerto Rico municipalities receive a brownfields boost

Five municipalities in Puerto Rico will get a boost in their efforts to clean up and redevelop contaminated properties, thanks to a total of \$2 million in grants announced by the United States Environmental Protection Agency (EPA). The funding will be used by the local governments to identify and assess sites that can be cleaned up and redeveloped. Properties such as these where reuse, redevelopment or expansion is hindered by pollution or potential pollution are known as brownfields. EPA Regional Administrator Alan J. Steinberg presented the grants to representatives of the five municipalities at a ceremony at the Agency's Caribbean Environmental Protection Division office in San Juan.

Properties such as these where reuse, redevelopment or expansion is hindered by pollution or potential pollution are known as brownfields.

The following municipalities each received \$400,000 in the form of one \$200,000 grant to assess sites with haz-

ardous substances and one \$200,000 grant to assess sites with petroleum:

- The Municipality of Caguas
- The Municipality of Canoan
- The Municipality of Salinas
- The Municipality of Toa Baja
- The Municipality of Yauco

The brownfields program encourages redevelopment of America's estimated 450,000 abandoned and contaminated sites. Nationally, 194 assessment grants totaling \$38.7 million were issued this year and will be used to conduct site assessment and planning for eventual clean up at one or more brownfields sites or as part of a community-wide effort. EPA also provides grants for clean up of hazardous substances, revolving loan funds and job training.

In addition to industrial and commercial redevelopment, brownfields grants have helped convert industrial properties to parks, landfills to golf courses, rail corridors to recreational trails and gas stations to housing. As of January 31, 2008, EPA's brownfields assistance has leveraged more than \$10.4 billion in clean up and redevelopment funding and 47,201 jobs in clean up, construction and redevelopment.

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Solution for crossword on page B6.

P	I	R	D	C	T	C	L	A	G	R	E	N	E	
E	V	E	L	V	L	S	O	S	T	O	M	P	O	C
T	S	V	A	P	O	P	T	L	T	O	R	I	R	
N	B	U	R	N	L	T	A	L	I	G	I	D	U	
E	T	P	E	E	E	N	O						O	
C	U	B	C	P	E	T	E	W	I	K	I	S	D	
M				D	S	L	E	D	S	E	Y	E	M	
R	E	K	E	R	H	D	P	K	E	R	O	R	B	
E	S	O	A	D	I	O	R	A	D	I	L	L		
T	V	L	A	S	P	L	A	R	N	V	A	F	M	
S	L	B	S					R	E	W	L	O	V	
P	M	P						E				S	S	
M								N	O	T	N	I	N	
U								O	F	I	N	I	L	
D								L	O	R	D	L	L	

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