



American Recycler

NewsVoice of Salvage, Waste and Recycling

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FOCUS: Paper/Plastics

Demand rises for post-consumer plastic



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Recycling after superstorm Sandy

by MIKE BRESLIN

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When Superstorm Sandy hit New Jersey and New York in October it was defined by the National Hurricane Center as a post-tropical cyclone. No matter what it was called, Sandy clobbered the east coast with the most destructive and costliest storm in the area's history. Rebuilding will be a monumental undertaking with demolition and site clearing of condemned structures leading the way. Recycling as much of the ruined material as possible will help mitigate the cost of rebuilding and lessen the strain on landfills.

Sandy is being blamed for tens of billions in damages, the majority of which occurred in New York and New Jersey. It's being estimated as the second-costliest storm in U.S. history, right behind 2005's Hurricane Katrina, which caused an estimated \$128 billion in damages.

In New York, Governor Andrew Cuomo estimated the storm damage at \$42 billion across the state. That estimate included \$9 billion for preventive measures for future storms.

New York City Mayor Bloomberg announced that they red-tagged 800 to 900 homes and estimated that up to 300 will have to be demolished.

Governor Chris Christie gave a preliminary estimate of



Mountains of white goods and metals from homes are piling up at Universal Recycling & Scrap Iron located near the Jersey shore.

\$29.4 billion in damages for New Jersey. "This preliminary number is based on the best available data, field observations and geographical mapping, and supported by expert advice from my cabinet, commissioners and an outside consulting company," Christie said.

New Jersey officials claim that 72,000 homes were damaged. An aerial analysis of the Jersey shore by the Federal

Emergency Management Agency (FEMA) showed more than 500 buildings were totally destroyed. An additional 5,000 structures suffered major damage and 24,000 suffered minor damage. FEMA expects the number of damaged homes and businesses to increase as closer inspections proceed.

In any case, billions will be spent to collect and dispose of material wrecked by wind and

flooding to remove collapsed structures and demolish condemned buildings before even more billions are spent on reconstruction. If black clouds have silver linings, this is one for the waste industry, demolition contractors and many other businesses – an unwelcome, but short-term financial boost in a sluggish economy. For municipal, county, state and federal

See **SANDY**, Page 5

Ford celebrates saving 120 million lbs. of damaged parts from filling landfills

Approximately 120 million lbs. of damaged vehicle parts have been processed through the Ford Core Recovery Program since its inception; the program celebrates 10 years in 2013.

Reusing parts as often as possible helps control costs and quality while conserving valuable resources and giving new life to vehicle components otherwise likely destined for a junkyard or landfill.

In the last 2 years, bumpers and headlights were added to the list of parts recycled or remanufactured through the program – about 26,000 headlight units were collected in the last year alone.

Ford's recycling and remanufacturing program has kept 120 million lbs. of



Approximately 120 million lbs. of damaged vehicle parts have been processed through the Ford Core Recovery Program since its inception in 2003.

damaged vehicle parts from landfills since 2003, effectively ending the days when the crack of a headlamp or crunch of a bumper would render useless such components.

The Core Recovery Program oversees collection, remanufacturing and recycling of damaged parts – everything from small sensors and fuel injectors to large engine parts – from Ford vehicles that have been repaired through the company's dealer network.

Several issues necessitated the program – from more complex and expensive parts in cars and trucks to a need to get more control over the sale of aftermarket components to a need to recycle more.

Over the last nine years, the list of parts recycled or remanufactured continues growing. In the last two years, bumpers and headlights were added to the list. In the

See **FORD PARTS**, Page 4

titanium



steel



aluminum



copper



rubber



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Customizable recycling signs available online

Free downloadable and customizable recycling signs are now available from the Recycling Association of Minnesota (RAM). Through a partnership with the Minnesota Pollution Control Agency (MPCA), RAM created standardized recycling signs intended for use at home, in schools and offices, and in various other away from home settings where recycling is offered.

The static signs can be downloaded for free from RecycleMinnesota.org and RecycleMoreMinnesota.org. You can now also customize the signs with your own logo and contact information on Recycleminnesota.org.

"Standard, consistent signage is one of the crucial components of a successful recycling program. The new sign customization tool offered by RAM allows users to tailor the recycling signs to their program needs while maintaining a simple, clear, and consistent message," said Mark Rust, supervisor of the Sustainable Materials Management Unit at the MPCA.

RAM is a non-profit organization focused on education and promotion of recycling. RAM offers free tools and resources for Minnesotans to recycle more through niche recycling programs.

The design of the standardized recycling signs is clear and simple, with each sign including bold images and a few descriptive words. This straightforward layout quickly communicates where to place a can, bottle, or piece of paper. Schools, businesses and other organizations can now customize the signs with their logo and contact information as well.

Clean Air Standards for industrial boilers, incinerators and cement kilns finalized

The U.S. Environmental Protection Agency (EPA) finalized changes to Clean Air Act standards for boilers and certain incinerators that will achieve extensive public health protections by slashing toxic air pollution, including mercury and particle pollution, while at the same addressing feedback provided by industry and labor groups, increasing the rule's flexibility and dramatically reducing costs. As a result, 99 percent of the approximately 1.5 million boilers in the U.S. are not covered or can meet the new standards by conducting periodic maintenance or regular tune-ups.

The final adjustments to the standards are based on an extensive analysis of data and input from states, environmental groups, industry, lawmakers and the public. As a result of information gathered through this review, including significant dialogue and meetings with public health groups, industry and the public, the final rule dramatically cuts the cost of imple-

mentation by individual boilers that EPA proposed in 2010. At the same time, these rules will continue to deliver significant public health benefits. EPA estimates that for every dollar spent to reduce these pollutants, the public will see \$13 to \$29 in health benefits, including fewer instances of asthma, heart attacks as well as premature deaths.

The rules set numerical emission limits for less than one percent of boilers – those that emit the majority of pollution from this sector. For these high emitting boilers and incinerators, typically operating at refineries, chemical plants and other industrial facilities, EPA is establishing more targeted emissions limits that protect public health and provide industry with options to meet the standards.

EPA has also finalized revisions to the Non-Hazardous Secondary Materials Rule to provide clarity on what types of secondary materials are considered non-

waste fuels and provide greater flexibility in rule implementation. This final rule classifies a number of secondary materials as categorical non-wastes when used as a fuel and allows operators to request that EPA identify materials through rulemaking as a categorical non-waste fuel.

Particle pollution and other harmful pollutants released by boilers and incinerators can lead to adverse health effects including cancer, heart disease, aggravated asthma and premature death. In addition, toxic pollutants such as mercury and lead that will be reduced by this rule are linked to developmental disabilities in children.

In a separate EPA action, to meet a court deadline, the agency issued final amendments to the 2010 clean air standards for the cement manufacturing industry. The final amendments maintain the significant emission reductions from the 2010 standards, while providing industry additional time for implementation.

EPA grants help Puerto Rico with recycling

The U.S. Environmental Protection Agency has awarded nearly \$50,000 to two Puerto Rico organizations, Leaders of the World and the Scuba Dogs Society, to educate low-income communities about effective waste management, recycling and the negative effects of improper waste disposal on people's health and water quality. The grant was awarded under the EPA's Environmental Justice Small Grants Program, which supports and empowers communities working on solutions to local environmental and public health issues.

Using a \$25,000 EPA environmental justice grant, Leaders for the World Inc. will educate young adults in San Juan's Cantera Peninsula about the harmful effects that improper waste disposal has on the ecosystem of Cantera's lagoon system and the local community. Leaders of the World will work with the community to monitor water quality, conserve and restore local wetlands and other areas of the ecosystem and prevent water pollution.

The Scuba Dogs Society, Inc. will use a \$24,286 EPA environmental justice grant

to educate residents of Loiza about the serious impacts of illegal dumping on nearby water bodies and the deficiencies of local waste management services. Through a hands-on educational program, workshops and direct assistance, the Scuba Dogs Society will work with Loiza residents, many of whom are subsistence fishers, to properly manage waste and to recycle. The program will also educate residents about the effect marine debris has on local waterways.

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Food and beverage cartons can now be recycled by 40 percent of U.S. households

As food and beverage cartons become more common on grocery store shelves, they are also becoming more common in curbside recycling bins. In 2009, a group of carton manufacturers joined forces as the Carton Council to increase carton recycling availability in the U.S. In just 3 years, the number of households that can recycle cartons has grown from 18 percent to now more than 40 percent, an increase of 128 percent. This represents more than 47.9 million U.S. households.

"In these budget-strapped times, the private sector is increasingly identifying solutions and ways to help the public sector meet its sustainability goals. Our work through the Carton Council is a great example of how business competitors can find common ground and work together to solve big challenges, which in our case is the lack of access to recycle what we know is a very environmentally friendly package – the carton," said Jason Pelz, vice president, environment, Tetra Pak North America, and vice president of recycling projects for Carton Council of North America.

In 2009, 21 million households could recycle shelf-stable and refrigerated cartons, which contain common food and beverage items like milk, broth

and juice. Now, more than double that amount are able to recycle cartons through their community's recycling programs, including programs in Dallas, Philadelphia, Milwaukee, San Diego and Los Angeles. Today, 43 states and 62 of the top 100 U.S. cities accept cartons. Consumers can find out if their program is included by visiting www.recyclecartons.com.

Cartons are a highly recyclable material. In fact, the paper fiber contained in cartons is extremely valuable and useful in making new products when recycled. Depending on what area of the country the cartons are recycled in and which paper mill they are sent to, recycled cartons can be made into office paper and tissues, and can even be used as one of the materials for wallboard manufacturing. The fact is, there is a high demand for recycled cartons, and recycling cartons increases waste diversion from landfills while still offering a potential revenue stream from the sale of cartons.

Cartons offer a sustainable packaging solution. In addition to being made mainly from a renewable resource, cartons are lightweight and have a compact packaging design. They also have a low carbon footprint throughout their life

cycle, allowing them to be shipped more efficiently, and in the case of shelf-stable cartons, they can be shipped and stored without requiring refrigeration, further reducing their carbon impact.

"We know from experience that residents respond more favorably to recycling when they are given opportunities to include more materials," said Dale Gubbels, chief executive officer of Firststar Fiber, a materials recovery facility (MRF) that handles residential recycling collection for the City of Omaha, Nebraska. "With the Carton Council's assistance, we were able to secure guaranteed market outlets for cartons, which in turn helped us convince the City of Omaha to allow the inclusion of cartons in the recycling program."

While the 40 percent access milestone is being celebrated in communities across the country, the Carton Council has its eyes set on even bigger numbers, with the goal of having carton recycling as widely accessible as possible.

"Our efforts in the U.S. will not stop at 40 percent access. Now, we see 50 percent on the horizon and are aiming much higher," said Pelz. "We want cartons to be as common in curbside bins as they are on store shelves."

Ford parts

■Continued from Page 1

short time since, approximately 62,000 bumpers have been collected while about 26,000 headlights have been recycled.

"Most parts that come back to us through the program still have a lot of life left," said Kim Goering, manager of Ford's remanufacturing and recycling programs. "That makes a strong business case to do whatever we can to extend the life of these components. Even more important, however, is that Ford strongly believes it's just the right thing to do from an environmental perspective."

Ford has remanufactured parts for decades, but it formed the Core Recovery Program in 2003.

Other factors led to the creation of the Core Recovery Program – vehicle compo-

nents, for example, have become increasingly complex and expensive, making it more important than ever to recycle and reuse parts whenever possible.

Take the headlight portion of the program: As recently as 15 years ago, headlights were pretty basic and utilitarian – consisting mostly of a bulb, a glass lens and a reflector.

Now, typical headlight assemblies are almost two feet wide and have become a major part of the vehicle, both in terms of design and function – consisting of not just a few parts, but expensive plastics, advanced bulb technology, additional wiring harnesses and more.

The headlight portion of the program started in November 2011. In its first year alone, about 26,000 units were reclaimed and every single part of the headlamp is recycled. In fact, more than 85 percent of each Ford vehicle today is recyclable, with

more and more parts being kept from landfills.

Bumpers, for example, are now collected and sent to a third party where they are processed into pellets that can then be used to make brand-new products. Since 2010, about 62,000 bumpers have been recycled through the program.

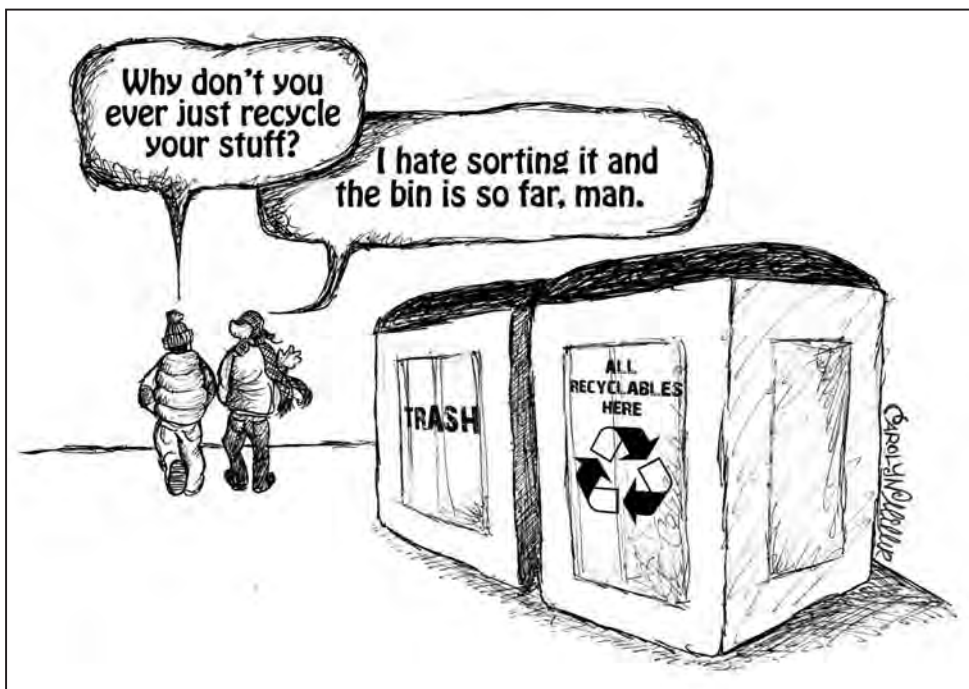
Dealers pay a core charge on each new part bought from Ford to replace a damaged one. When the original damaged part is returned to Ford, the dealer gets the money from the core charge back – operating exactly like bottle return systems do in some parts of the United States.

Parts recycled are sent to third-party processors and the raw material is resold.

When parts are remanufactured, they are cleaned, machined and tested to meet Ford quality standards. Like the raw material that comes from recycling, the parts that are remanufactured can then be sold or used in new applications. In the rare instances when recycling or remanufacturing is not an option, Ford ensures proper disposal.

Goering said that whether parts are recycled or remanufactured, the Core Recovery Program has been profitable for Ford – and that it could grow even more.

CORRECTION: The photo on page B5 of the January 2013 issue, labeled with Warren & Baerg Manufacturing, was incorrect. The correct photo is shown below:



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Sandy

■Continued from Page 1

agencies, it means unexpected spending and additional workloads to deal with the aftermath.

To get an update on the demolition industry and how it relates to Sandy, American Recycler News interviewed Mike Taylor, executive director of the National Demolition Association (NDA). His association represents approximately 900 U.S. and Canadian companies that offer demolition and related services.

"It's been a good time for us over the past six or seven months. The last three years were pretty dry and the recession had an impact on the association's membership. It tended to cull the herd. When the recession was in full bore the number of people showing up for bid-walks tripled. You had everybody and his brother; little general contractors in the home improvement market, small builders, even pool installers and landscape contractors trying to get into the business. In that environment margins dropped precipitously. But now we are seeing a decent amount of work almost everywhere.

"Sandy, just like after every other major event, whether it's a big fire in California, or Katrina, or Hurricane Ike in Texas, our industry expresses great interest. If you consider the nature of the structures along the Jersey coast when you head north from Atlantic City for 50 miles, there are some real pockets of significant damage. Most construction in those areas are wood, pretty standard shore houses many dating back to the 1950s and older. Many of those washed out and collapsed. It's not dissimilar to the World Trade Center in that there isn't that much demolition, it's really a lot of site clearance. I think very little of the material will be recycled. Speed is of the essence here to give the impression that over the next six months they are making progress. The infrastructure will be repaired and the shore will be open for business. I think ideally they would like to recycle a lot of this material, but I don't know if they have the time. I envision them crunching the vast majority of the wood so they can increase the volume that can be removed with each truckload that will be landfilled," Taylor concluded.

Metal recycling is another matter. One prime destination for Sandy metal is Uni-

versal Recycling & Scrap Iron (URSI) in Bayville, New Jersey.

Located just five miles from the hardest hit section of the Jersey shore, URSI has been inundated with materials and is providing a host of services to help with the Sandy cleanup.

"Since Sandy, there has been a great increase of scrap from residents, municipalities, local scrappers, electricians, HAVC companies and contractors," said Damon Kozul, Professional Engineer and Certified Hazardous Materials Manager and safety officer at URSI.

"We are obtaining scrap metals either through our own container and trailer pickup service or via clients bringing the scrap metals and cars to our facility. Because of the strategic location of our yard, people who are providing debris removals and recycling services are bringing materials here. We've seen a tremendous influx of white goods, refrigerators, washers and dryers all that stuff and lot of copper, white iron, flooded equipment from people's basements, aluminum siding and a steady stream of flooded cars. Any metals you would find in a home or commercial structure are arriving."

Before Sandy, the yard was receiving 30 to 40 junk cars per week. After the storm, they are averaging more than 70 cars per week. The yard has gone to a seven day work week schedule to meet the increased volume.

Due to the increased supply of metals, URSI has seen an increase in revenues, but says it has invested this back into the company by hiring additional manpower and

purchasing additional trucks, containers and equipment. In addition, URSI purchased a mobile car crusher to facilitate the recycling of flooded vehicles, but also to provide clients with a mobile alternative to process the sizeable stockpiles of flooded cars in the area.

"For customers who do not have trucks or have larger loads, we are providing container and trucking services. We also have a 16 acre, fenced-in area to safely store flood damaged boats, campers and vehicles," Kozul continued. "Our Universal Companies are also experts in demolition and debris removal. We provide complete building demolition, home demolition and debris cleanup services. We are fully insured, have safety trained employees and own specialized demolition equipment to perform any project safely and efficiently."

In Long Island, New York the entire south shore and parts of the north shore were decimated by Sandy. At Winters Bros., a Progressive Waste Solutions Company, volume on its residential routes doubled in the weeks after the storm. Winters, recently acquired by Progressive, handles residential and commercial waste, contractor debris and operates several MSW C&D transfer stations on Long Island.

Winters' employees suffered from the storm, some losing homes and vehicles, yet most worked seven days per week on heavy overtime during the cleanup because the volume of the storm debris was so huge. The company had about 185 people working on storm debris; 4 came up from Maryland and 4 down from Toronto each with a truck. In addition, Winters brought in 50

extra roll-offs from outside the area. Because of the unavailability of hotel rooms, the out-of-town crews slept on cots at company offices during the first week and a half.

Peter Casserly, director of government affairs at Progressive said, "Our experience was probably very similar to all the other companies on the Island. We were just inundated and overloaded with material, not only the hauling and disposal but also the actual cleanup in the streets. We work for a number of municipalities, actually going down the streets, providing dumpsters and tractor trailers and hauling the material to disposal sites. There were a number of temporary disposal sites set up. By the second day of the cleanup, all of the facilities on the Island, including ours, were backed up and the material was flowing out into the streets. No one could handle the overwhelming amount of debris that we were faced with."

"Depending on which municipality we were working for, a lot of material went directly to other processing plants for which we were doing just the hauling. We have picking lines at all our three C&D facilities to pull out the metals, paper, plastic, wood, stones and concrete. Typically, we recover 9 to 12 percent of the volume. With C&D the percentage usually goes up a bit," said Casserly.

Sandy has meant heartbreak for countless people as well as a historically large cleanup. This disaster was not welcomed by anyone, but the demolition industry and scrap yards were there and ready to work overtime to help the victims recover from this tragedy.

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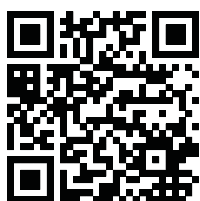


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Glass recycling company pays for violations

Strategic Materials, Inc. has agreed to pay a penalty of \$159,750 to settle EPA's claims that it violated the federal Clean Water Act by allowing polluted storm water from its Franklin, Massachusetts facility to flow into nearby waters. Strategic Materials, Inc., based in Houston, Texas, operates the glass recycling facility, which is located at the edge of wetlands abutting Mine Brook, a tributary of the Charles River.

EPA alleged that Strategic Materials initially failed to obtain permit coverage for its storm water discharges and failed to prepare a storm water pollution prevention plan. EPA also alleged that once Strategic Materials obtained permit coverage, it discharged stormwater from the facility in violation of various terms and conditions of EPA's "Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity."

Since the inspection, Strategic Materials has come into compliance with the federal law. The company revised its storm water pollution prevention plan, improved the design and implementation of control measures that minimize pollutant discharges, and began regularly performing the required facility inspections and outfall assessments.

The Clean Water Act requires industrial facilities, such as recycling facilities, to have controls in place to minimize pollutants from being discharged with stormwater into nearby waterways. Each site must have a stormwater pollution prevention plan that sets guidelines and best management practices that the company will follow to prevent runoff from being contaminated by pollutants.

Lisa Jackson resigns from EPA

Lisa Jackson, administrator of the U.S. Environmental Protection Agency (EPA) for President Barack Obama's first term, announced that she will resign.

"I will leave the EPA confident the ship is sailing in the right direction, and ready in my own life for new challenges, time with my family, and new opportunities to make a difference," Jackson said in a statement.

With a tenure that included a host of new air-quality regulations, Jackson gained praise from environmental groups but severe criticism from regulated industries and Republican leaders.

**No. 1
Preferred
Publication**



SWACO to build waste recycling facility in Ohio

Team Gemini, a sustainable project design and development company based in Orlando, Florida, has entered into an agreement with the Solid Waste Authority of Central Ohio (SWACO) to build a land-fill receiving facility and materials recovery facility (MRF) on property in Grove City, Ohio.

The agreement sets the stage for integrating a viable sustainable solution that reduces SWACO's use of landfills and will eventually eliminate the need for their use by replacing them with a landfill receiving facility (LRF) that works with a waste stream recovery and recycling facility.

Team Gemini has been selected by SWACO to build both the LRF and the waste stream recovery facility, which is being called the "Center for Resource Recovery and Recycling" or COR3, in a tract of land south of Ohio State Route 665 in Grove City, Ohio.

The LRF will be owned and operated by SWACO, while the COR3 facility will be owned and operated by Team Gemini and both buildings will have a combined area of over 185,000 sq. ft.

When the project is completed, all municipal solid waste (MSW) will be delivered to the receiving facility, where the waste will then be directed to either the MRF/COR3 or the landfill – a procedure that will allow MSW haulers to remain on pavement without having to climb the hill.

Initially, the MRF will be able to process up to 2,000 tons per day, with plans to achieve nearly 100 percent recycling of the MSW received from the LRF.



—Artist's rendering

After recyclable materials are recovered, which include metals and plastics, the balance of the organic waste will be preprocessed for use in anaerobic digesters and other sustainable energy generation technologies.

In addition to the LRF and COR3 projects, Team Gemini has signed a lease with SWACO to develop a 343 acre tract of land north of S.R. 665, to create industrial and research park that will serve as a sustainable business cluster powered by the waste stream located within a Community Reinvestment Area.

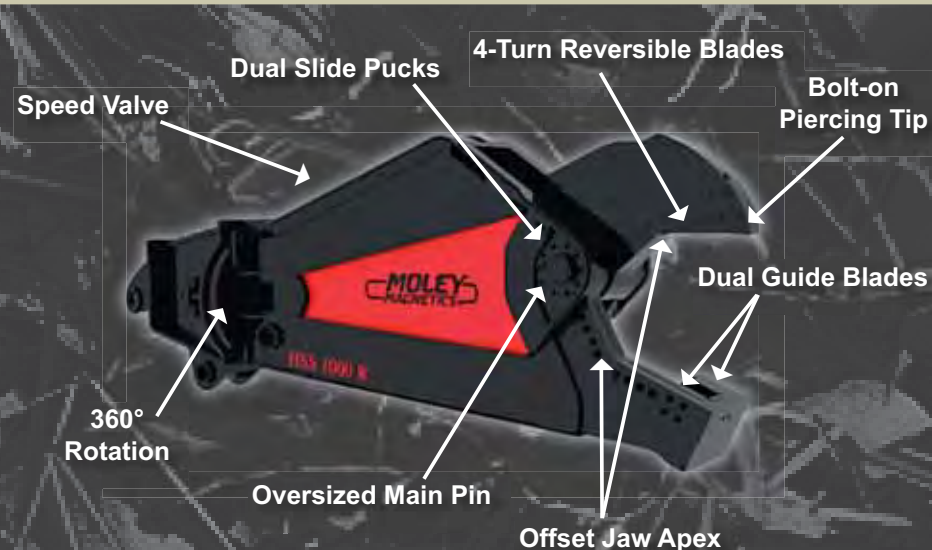
Team Gemini plans to become the anchor tenant in the industrial park, which will be named Gemini Synergy Center, and will build process facilities including a biogas/biomass plant, a facility for converting compost into fertilizers and hybrid soils and the conversion of plastics into oil.

In addition, Team Gemini will manage an additional 35 acres of automated greenhouses that can grow organic food year-round.

The total investment by Team Gemini is planned to be up to \$300 million.

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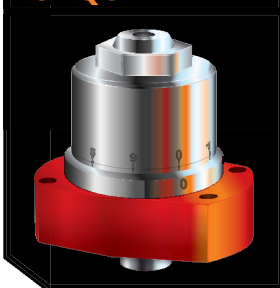
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WASTE

OSHA holds meetings on vehicle backover prevention

Representatives from the solid waste and recycling industry are participating in stakeholder meetings organized by the Occupational Safety and Health Administration (OSHA) to solicit comments on preventing fatalities and injuries from vehicle backovers. These stakeholder meetings will provide employers, workers, safety professionals and equipment makers with an opportunity to inform OSHA about ways to address backover risks. The purpose of the meetings is to gather information, determine whether or how backovers may be prevented by new technology or other methods, and discuss the effectiveness of those measures.

Seventy-nine workers were killed in 2011 when backing vehicles or mobile equipment crushed them against an object or rolled over them, according to Bureau of Labor Statistics.

An initial meeting was held at the U.S. Department of Labor in January, 2013, in Washington, D.C. An additional meeting was held in February 5, 2013, in

Arlington, Texas. At the initial meeting, attendees discussed ways to eliminate blind spots using technology, as well as backing-specific training for drivers.

National Solid Wastes Management Association (NSWMA) safety director David Biderman was one of the participants at one of these meetings. About the effort, Biderman stated, "I was pleased by the solid waste and recycling industries' strong participation at this meeting, including NSWMA and the Waste Equipment Technology Association (WASTEC) members. We emphasized that the industry currently devotes serious attention to backing, as it is the leading cause of vehicular accidents involving collection vehicles. NSWMA intends to highlight backing in future issues of Safety Monday, the association's weekly safety newsletter, and its 2013 safety seminars."

NSWMA and WASTEC members will also participate in the OSHA meetings scheduled to be held in Texas.

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WASTE

SWACO makes a move to increase recycling

The board of trustees for the Solid Waste Authority of Central Ohio (SWACO) approved two land lease contracts in January which serve as blueprints for new facilities that will significantly increase the area's recycling rates. The board approved the agreements with Team Gemini, LLC, a sustainable project design and development company headquartered in Orlando, Florida.

The leases mark completion of contract negotiations between SWACO and Gemini. SWACO executive director Ronald J. Mills also recently signed a contract where Gemini agrees to construct the recycling center and an industrial park that will be powered primarily by renewable energy.

Under details spelled out in the contract and land leases, Gemini agrees to lease 22-acres of SWACO land next to the Franklin County Sanitary Landfill to construct receiving facilities; Gemini will lease 343-acres of SWACO land north of State Route 665, which will house Gemini's green-energy industrial park. In both cases, Gemini agrees to pay SWACO \$1,000 per acre per annum once the facilities are constructed.

The contract also requires Gemini to build at its expense a combined receiving facility, which will be owned and operated by SWACO, and a Material Recovery Facility (MRF), which will be owned and

operated by Gemini. Once completed in 2014, Team Gemini agrees to recycle a minimum of 1,000 tons of waste per day that would otherwise be headed to the landfill and pay SWACO \$4.81 per net ton for the usable material. This payment is in addition to normal tipping fees paid by haulers at the gate.

Under terms of the contract, SWACO can increase the amount of waste Gemini receives, leaving the potential for larger scale recycling.

Mills said the projects will not affect existing curbside recycling programs. About 60 percent of landfill waste comes from businesses.

"Curbside programs can continue to harvest the best of recyclables. This project is a way for us to increase recycling in what is left," Mills said. "This project is a tremendous step toward SWACO's goal of decreasing dependence on the landfill while providing SWACO financial stability where ratepayers ultimately benefit."

In addition, Gemini agrees to build a conveyor system that will bridge State Route 665 and transport the recyclables from the MRF to processing facilities located in the industrial park. The park is also expected to include greenhouses, a fish farm, an anaerobic digester and other production and industrial facilities. Under the design concept, waste from one center will help fuel another.

INTERNATIONAL

Plastics recycling will continue growth in Europe

Plastics recycling will continue to grow; it was confirmed during this year's EuPR Annual Meeting, which took place in Brussels.

The event was devoted to the subject of "Resource Efficiency for Plastics." It turned out to be a great success with more than 160 guests in attendance.

During the event EuPR unveiled its new corporate identity. The new image stands for positive changes in the European plastics recycling industry. The new name Plastics Recyclers Europe, as well as, the new website are to emphasize the transformations that the plastics recycling industry is currently undergoing – its development, improvement and growth to serve the plastics industry on its way to sustainability.

The panel of conferences, moderated by Alexandre Dangis, on "Resource Efficiency for Plastics" and the debate were

concerned mainly with the issue of boosting plastics recycling as well as improvement of current waste management systems. EuPR has revealed, as well, its priorities and objectives for the future in an updated Strategy Paper. Plastic Recyclers Europe main objective is to increase recycling targets. Their aim is to introduce an eco-design for plastics products to make recycling more efficient and more accessible. Additionally, they are emphasizing the need to stop landfilling of waste which could be destined for reuse and recycling.

2012 has been difficult and at the same time fruitful in achievements for the Plastics Recyclers Europe. EuPR successfully launched the EuCertPlast accreditation and made prominent progress within the End of Waste Criteria; the tools will be now ready to help member states in Europe to create jobs in plastics recycling.

Tracbel becomes exclusive dealer for Precision Husky in Brazil

Tracbel, a distributor of heavy equipment, forestry and agricultural machinery in Brazil, has signed a partnership with Precision Husky as exclusive distributor of its products in Brazil.

The objective is to meet the growing demands of the Brazilian timber market, offering a comprehensive portfolio of productive solutions at more competitive

prices for the timber harvesting sector throughout the country.

As official distributor for Precision Husky equipment, Tracbel will be even better equipped to serve strategic markets, such as pulp, paper, and to compensate the furniture market and sawmills, as well as service providers.

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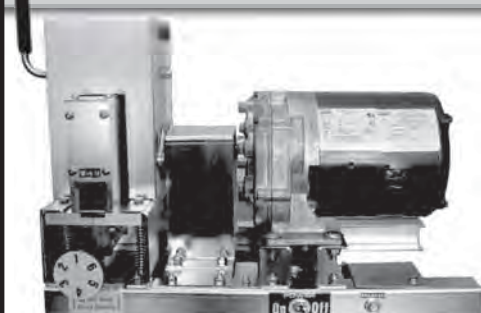
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ALTERNATIVE ENERGY

First Wind projects 50 percent portfolio growth following passage of wind energy tax credit

First Wind, an independent U.S.-based renewable energy company, hopes to increase its operating portfolio of wind projects by 50 percent or more after the recent extension of the federal tax credits by Congress last week.

The effort could mean that thousands of people will be employed building new First Wind projects over the next few years along with millions of dollars in investment and new revenue generated for host communities and others, while delivering cost-competitive clean energy to more homes across the country. First Wind currently operates 980 MW of wind projects in 6 states across the United States.

"With the passage of the wind energy tax credit extension, First Wind and other wind energy companies around the country have predictable federal policy in place that will allow for

millions of dollars of investment in local communities over the next few years," said Paul Gaynor, chief executive officer of First Wind. "We are planning to substantially expand our portfolio – by as much as 50 percent or more – with several projects starting construction by the end of 2013. That will mean jobs and investment, and consumers will be getting clean energy at a competitive price."

The extension of the wind energy Production Tax Credit (PTC) and Investment Tax Credits for wind energy projects will allow for the continued growth of cost-competitive wind energy in the United States. In 2012, wind energy was the most-installed new electrical generating capacity in America. First Wind alone commissioned five new projects in four states last year.

The bill passed would cover all wind projects that start construction in

2013. The new legislation includes language that projects meeting certain criteria by December 31, 2013 to be "in construction" will be eligible for the tax credits. First Wind already has a number of projects in late stages of development that could be ready for early construction work by the end of the year. Some of the prospective projects that could meet the criteria include several projects in Maine, along with possible projects in Oregon, Washington, Idaho, Utah and Hawaii. In addition, First Wind is also exploring possible projects in other areas of renewable energy to complement the company's nearly 1,000 MW wind power portfolio.

Nearly 1,000 people worked on the construction and development of the 5 wind projects First Wind brought online in 2012.

Plasco builds Ottawa plant

Plasco Energy Group, Inc., Ottawa, Ontario, has signed a contract with the city of Ottawa and said that it will build a 150,000 ton per year facility to convert the city's municipal solid waste (MSW) to energy.

Plasco will design the facility around its Plasco Conversion technology. The city of Ottawa will supply 109,500 tons of MSW per year to the facility and has the right of first refusal to supply the balance of the plant's capacity.

The contract has a base period of 20 years with four 5-year extensions at the option of the city, which will pay an escalating tipping fee starting at \$83.25 per ton.

Fortistar acquires Vocational Energy

On December 31, 2012, Fortistar, through its affiliate TruStar Energy, purchased a majority interest in Vocational Energy. TruStar Energy will continue the existing construction business of Vocational Energy and expand into offering long term fuel supply agreements to companies wishing to convert their transportation fleets to compressed natural gas (CNG).

A future division is expected to provide operations and maintenance services to owners of CNG facilities. Existing Vocational Energy management will remain in place.

General Biodiesel fined for hazardous chemicals

General Biodiesel, in south Seattle, Washington, will pay a penalty for failing to report their hazardous chemicals in violation of federal emergency planning laws, according to a consent agreement with the U.S. Environmental Protection Agency.

General Biodiesel converts used cooking oils, fish oil, vegetable oil and animal fats into biodiesel fuel and glycerol in a process that uses hazardous chemicals including methanol, sodium methoxide and sulfuric acid.

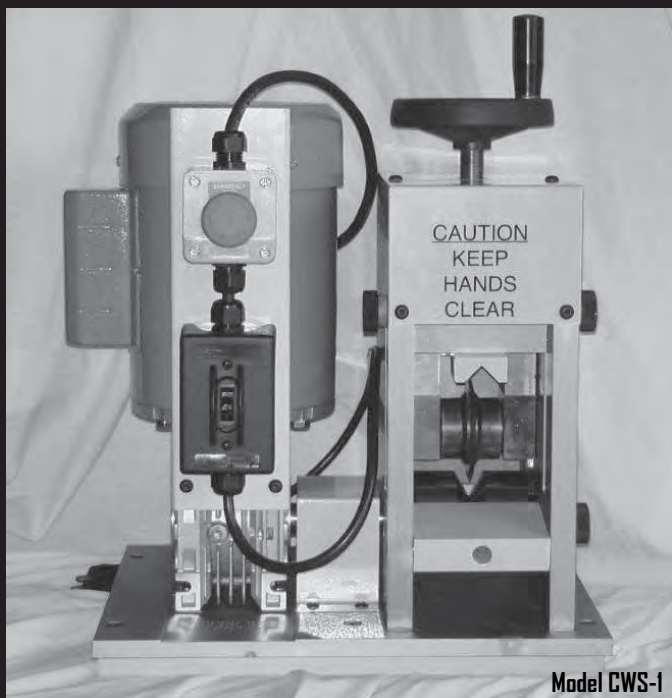
In 2009 and 2010, General Biodiesel failed to submit Emergency and Hazardous Chemical Inventory forms to the Seattle fire department, King County emergency management, and Washington's Emergency Response Commission.

Failure to report large amounts of hazardous chemicals to appropriate agencies is a violation of the federal Emergency Planning and Community Right-to-Know Act.

General Biodiesel agreed to pay a \$62,985 penalty and fully comply with federal emergency planning rules to protect their workers, emergency responders and the local community.

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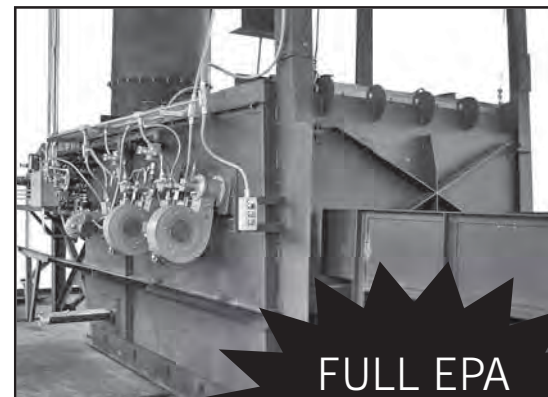
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METALS

Alcoa reports strong 2012 earnings

For the year 2012, Alcoa revenue was \$23.7 billion, compared to \$25 billion in 2011. Income from continuing operations was \$191 million, or \$0.18 per share, in 2012 compared with \$614 million, or \$0.55 per share, in 2011. Excluding the impact of special items, income from continuing operations was \$262 million, or \$0.24 per share, for 2012, compared to \$812 million, or \$0.72 per share, for 2011.

Full-year 2012 net income was \$191 million, or \$0.18 per share, compared to \$611 million, or \$0.55 per share, in 2011.

Alcoa's midstream and downstream businesses achieved record performance in 2012 with ATOI of \$358 million and \$612 million, respectively. Adjusted EBITDA per metric ton for Global Rolled Products was a full-year record at \$390, 66 percent higher than the 10-year average and 19 percent higher than 2011. Engineered Products and Solutions ended the year with a record annual adjusted EBITDA margin of 19.2 percent, more than double where it was 10 years ago.

Alcoa turned in strong performance against its financial targets in 2012, delivering strong cash results in a challenging market.

Despite a drop in both realized alumina prices and realized aluminum prices year-on-year, and \$561 million in cash contributions to the pension plan, the company generated \$1.5 billion in cash from operations and \$236 million of free cash flow in 2012. At the same time, Alcoa reduced net debt by over \$450 million to its lowest level since 2006 (\$7 billion), while maintaining a strong cash position of \$1.9 billion.

Alcoa ended 2012 with a debt-to-capital ratio of 34.8 percent, within its 30 to 35 percent target range.

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"We tried another brand once," explains Lynn. "It cost a fortune for parts. Their service department was horrible and no one was helpful or cared about anything. Needless to say, we gathered our wits, embraced our Al-jon tradition and never looked back."

Over the past 16 years, Cascade has purchased eight Al-jon machines, which helped grow the business. "We never thought we would achieve what we have," states Lynn. "They have always gone over and above to make sure we had what we needed. If we have achieved some measure of success it was, in part, because of our relationship with the folks at Al-jon."

Lynn & Don Roemer

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November steel imports increase

Key finished steel products with a significant import increase in November 2012 compared to October are reinforcing bars (up 60 percent), sheets and strip all other metallic coatings (up 43 percent), cold rolled sheets (up 28 percent) and plates in coils (up 20 percent). Major products with significant YTD import increases vs. the same period last year include reinforcing bar (up 57 percent), line pipe (up 40 percent), sheets & strip galvanized hot dipped (up 38 percent), oil country goods (up 27 percent), sheets and strip all other metallic coat-

In November, the largest volumes of finished steel imports from offshore were all from Asia and Europe. They were South Korea (286,000 NT, down 25 percent), China (145,000 NT, up 10 percent), Japan (143,000 NT, down 21 percent), Turkey (108,000 NT, up 54

percent) and Germany (101,000 NT, down 17 percent). For the first 11 months of 2012, the largest offshore suppliers were South Korea (3,478,000 NT, up 32 percent), Japan (1,844,000 NT, up 37 percent), China (1,469,000 NT, up 28 percent), Turkey (1,294,000 NT, up 99 percent) and Germany (1,153,000 NT, up 33 percent).

October steel shipments up 2.7 percent

Shipments in October were the 2nd lowest monthly amount in 2012 and raw steel capacity utilization in October was 68.0 percent. Raw steel production remains weak but has improved modestly with the most recent weekly utilization rate being 73.9 percent for the week of December 15, 2012.

Aleris idles West Virginia plant

Jason Saragian, director of communication for Aleris, said 30 to 40 employees will be impacted.

Aleris' Bens Run facility produces pyramid and cone-shaped deoxidizers used in the steel industry that help remove impurities during the steel-making process. The facility also produces aluminum ingot in multiple alloys and manufactures recycled secondary ingot and sows.

DJJ and JW Aluminum sign scrap agreement

The David J. Joseph Company's Metals Group (DJJ) and JW Aluminum announced that JW Aluminum is utilizing DJJ as the primary scrap buying agent for the Mt. Holly, South Carolina aluminum manufacturing facility. JW Aluminum will continue to source scrap directly from the marketplace for its other three manufacturing facilities.

The agency relationship also presents significant marketing, administrative and support service benefits to JW Aluminum's scrap suppliers.

Founded in 1979, JW Aluminum manufactures specialty flat-rolled aluminum products including "fin stock" used by the heating and cooling industry, light gauge converter foil for the

flexible packaging industry, honeycomb foil for the aerospace industry, bare and painted sheet products for window coverings and the building and construction markets, and other foil and sheet products. JW Aluminum operates four facilities located throughout the country – in Mt. Holly, South Carolina, St. Louis, Missouri, Russellville, Arkansas and Williamsport, Pennsylvania.

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Shredder Bundles (tin)	per gross ton	299.00	301.00	330.00	340.00	320.00
Crushed Auto Bodies	per gross ton	299.00	301.00	330.00	340.00	320.00
Steel Turnings	per gross ton	220.00	210.00	230.00	199.00	240.00
#1 Copper	per pound	3.09	3.05	3.39	3.57	3.42
#2 Copper	per pound	3.00	2.98	3.24	3.42	3.25
Aluminum Cans	per pound	.58	.68	.78	.75	.71
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METALS

November import permits up 0.7 percent over October

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 November totaled 2,557,000 net tons (NT). This was a 6 percent decrease from the 2,721,000 permit tons recorded in October and up 0.7 percent from the October preliminary imports total of 2,540,000 NT.

Import permit tonnage for finished steel in November was 2,014,000 NT, down 2 percent from the preliminary imports total of 2,059,000 NT in October. November 2012 total and finished steel import permit tons would annualize at 33,581,000 NT and 26,130,000 NT,

up 18 percent and 20 percent, respectively, vs. the 28,515,000 NT and 21,835,000 NT imported in 2011. The estimated finished steel import market share in November was 24 percent, and it is 24 percent through 11 months of 2012.

Finished steel imports with large increases in November permits vs. the October preliminary include reinforcing bars (up 45 percent), hot rolled bars (up 39 percent), plates in coils (up 36 percent), sheets and strip all other metallic coatings (up 25 percent) and cold rolled sheets (up 17 percent). Major products with significant year-to-date (YTD) increases vs. the same period in 2011 include reinforcing bars (up 55 percent),

line pipe (up 40 percent), sheets and strip galvanized hot dipped (up 38 percent), oil country goods (up 28 percent), sheets and strip all other metallic coatings (up 23 percent) and cut lengths plates (up 22 percent).

In November, the largest finished steel import permit applications for off-shore countries were for South Korea (290,000 NT, down 22 percent from October), China (175,000 NT, up 49 percent), Japan (147,000 NT, down 18 percent), Turkey (96,000 NT, up 37 percent) and Germany (93,000 NT, down 10 percent). Through the first 11 months of 2012, the largest offshore suppliers were South Korea (3,471,000 NT, up 32 percent from the same period in 2011),

Japan (1,844,000 NT, up 37 percent) and China (1,484,000 NT, up 30 percent).

"The November data indicates that steel imports continue to capture a very high level of U.S. market share," AISI president and chief executive officer Thomas J. Gibson, said, "and this is not through any competitive advantage, but largely as a result of government subsidies, currency manipulation, trade barriers and dumping. We continue to seek aggressive engagement by the U.S. federal government to stem this import surge, which is left unchecked, will slow the industry's recovery from the recession and will result in additional job loss throughout the steel supply chain."

Colville Tribes win environmental lawsuit against Teck Metals

A judge in the United States District Court in Yakima issued a ruling that Canadian mining and smelting giant Teck Metals, Ltd. is liable under United States environmental law for contaminating the Columbia River with millions of tons of smelting waste.

In finding Teck liable under the Comprehensive, Environmental Response, Compensation and Liability Act (CERCLA, also known as Superfund), Judge Lonny R. Suko ruled that, "For decades Teck's leadership knew its slag and effluent flowed from Trail downstream and are now found in Lake Roosevelt, but nonetheless Teck continued discharging wastes into the Columbia River." The court noted Teck's manager's recognition that it, "had been treating Lake Roosevelt as a free, convenient disposal facility for its wastes." Given this conduct and connection with Washington, Judge Suko decided that Teck could be tried in Washington, even though its smelter is located in Canada.

Included in the decision, the judge determined:

Between 1930 and 1995, Teck intentionally discharged at least 9.97 million tons of slag, including heavy metals such as lead, zinc, mercury, cadmium, copper and arsenic, directly into the Columbia river via outfalls at its Trail smelter.

Teck knew its disposal of hazardous waste into the Upper Columbia River was likely to cause harm, and was told by the Canadian government that its slag

was toxic to fish and leached hazardous metals.

Pursuant to CERCLA, Teck is liable to the Tribes and the State in any subsequent action or actions to recover past or future response costs at the Upper Columbia River site.

The Court's finding that Teck is liable under CERCLA will give EPA the power to force Teck to fund necessary clean up.

First filed in 2004, the lawsuit arose from Teck's refusal to comply with United States Superfund law to study the nature and extent of hazardous substances discharged by the mining company in and around Lake Roosevelt and the Upper Columbia River. The smelter

is located directly on the Columbia River. Teck's smelting wastes have been documented throughout the 150 mile reach of the Columbia River between the Canadian border and Grand Coulee Dam.

The Confederated Tribes of the Colville Reservation joined the lawsuit in 2005. For seven years, the Tribes, together with the State of Washington, litigated to obtain these results – the determination that Teck is subject to United States environmental law and is obligated to investigate and clean up contamination in the Upper Columbia River and Lake Roosevelt.

Teck finally conceded that it dumped nearly 10 million tons of smelt-

ing waste into the Columbia River, some of which included hazardous substances that deposited in the United States, and that its wastes leached heavy metals into the environment.

Together with other governmental entities, the Tribes and the State are actively planning studies necessary to identify the extent of injury and damage in the river, as well as in the upland areas. Once complete, the Tribes and State will return for another trial to address the damages that have resulted from the decades of release of hazardous substances in the Upper Columbia River, Lake Roosevelt, and the upland region.

A truck driver had 500 penguins to deliver to the state zoo. As he was driving his truck, his truck broke down. After a few hours, he waved another truck down and offered the driver \$500 to take the penguins to the zoo for him.

Later, he saw the new truck driver cross the road with the penguins behind him. The guy jumped out of his truck and asked, "What's going on? I gave you \$500 to take these penguins to the zoo!"

The replacement driver responded, "I did take them to the zoo! And I had money left over, so now we're going to see a movie, too."

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AUTO

State ballot measure passes

It may be the Massachusetts' ballot initiative that received the least amount of national attention on Election Day, yet its approval benefits every car owner in the state. On November 6, voters in Massachusetts approved the pro-consumer, pro-competition Right to Repair ballot measure with a historic 85 percent of the vote. Supporters of the legislation urge Congress to pass a national Right to Repair law.

"When more than 2.2 million voters in the commonwealth overwhelmingly approved Right to Repair, they demonstrated how important this issue is to every motorist, not only in Massachusetts, but across the country as well," said Kathleen Schmatz, president and CEO of the Automotive Aftermarket Industry Association. "The Massachusetts legislature unanimously passed Right to Repair legislation earlier this year and Governor Patrick signed it into

law on August 7, but the referendum was still on the ballot and voters had their say. They made it crystal clear that they want to have the Right to Repair."

When local repair shops are denied access to non-proprietary repair information from the car companies, competition and consumer choice are limited. Right to Repair levels the competitive playing field for motoring consumers and between new car dealerships and independent repair shops by requiring that car companies provide full, fair access at a reasonable cost to all non-proprietary service information, tools, fault codes and safety-related bulletins needed to repair motor vehicles.

The Motor Vehicle Owners' Right to Repair Act (HR 1449) was introduced into the 112th Congress by Reps. Edolphus Towns (D-NY) and Todd Russell Platts (R-PA), and currently has 52 co-sponsors.

APRA names officers

The Automotive Parts Remanufacturers Association (APRA) announced their 2012-13 officers.

APRA's new chairman is Nick Staub, president of Romaine Electric in Kent, Washington. Joining Staub will be vice chairman Joe Kripli, WABCO Reman Solutions, Rochester Hills, Michigan; treasurer Tim Roth, SRC Electrical, Springfield, Missouri, and secretary Omar Cueto, L&J Diesel Service, Jacksonville, Florida.

ARA relocates offices to DC

The Automotive Recyclers Association (ARA) has expanded its headquarter operations and leased office space 1,600 ft. from the U.S. Capitol in Washington, DC. The Association's professional staff will be better able to advance ARA's policy and industry-related agendas during busy days when there are multiple meetings on and around Capitol Hill, and continue association-focused business in between meetings.

ELECTRONICS

EPA, LG Electronics collaborate on environmental sustainability

The U.S. Environmental Protection Agency (EPA) and LG Electronics USA (LG) have entered into an agreement to collaborate on a number of environmentally beneficial goals.

Under the agreement signed by EPA and LG, the company has pledged to participate in a broad array of EPA environmental stewardship programs with technical assistance and support from the EPA. The memorandum of understanding (MOU) between the EPA and LG, states that the company will pursue a series of initiatives, including:

- Enhancing its leadership in the Energy Star program by joining the Energy Star Commercial Building Program,

- Expanding its role in the EPA Green Power Partnership Program by increasing its purchase of green power,

- Joining the EPA WasteWise Program to enhance waste prevention programs, recycling practices and sustainable purchasing at all U.S. facilities,

- Incorporating EPA WaterSense technologies in its facilities to conserve water,

- Supporting EPA Sustainable Materials Management programs for electronics and food waste recycling challenges,

- Utilizing the EPA GreenScapes program to support environmentally beneficial landscaping practices that can reduce waste, conserve water and cut energy usage,

- Adopting the EPA Clean Construction USA Program to help reduce emissions from internal combustion engines used in facility construction and operation,

- Implementing environmental best practices in energy management systems to reduce greenhouse gas emissions, and

- Achieving LEED certifications from the U.S. Green Building Council.

The MOU also covers product stewardship, environmentally-preferred purchasing, green infrastructure, green transportation and environmental education initiatives in which EPA and LG will collaborate.

The programs covered by the MOU supplement LG's broad array of sustainability initiatives including energy efficiency and greenhouse gas reductions in manufacturing and the supply chain; consumer education aimed at reducing the environmental footprint of product use; producer responsibility through consumer take back/recycling programs; reduction in the use of hazardous substances; deployment and promotion of renewable energy technologies; and development of innovative green life cycle product designs.

LG Electronics USA will submit an annual status report to EPA. EPA will use this report to determine the environmental benefits associated with the company's "green" activities and provide feedback on ways to further improve its environmental performance.

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CONSTRUCTION & DEMOLITION

CMRA expands award program

Two new categories of recognition, including a C&D Recycling Hall of Fame, have been developed by the Construction Materials Recycling Association. The awards will be announced at C&D World, the association's Annual Meeting to be held April 20 – 23 in Tampa, Florida.

Also new is the Member Of The Year Award bestowed on the association member who has done the most to advance the association's agenda during the past year. In addition, the association will continue to honor the most important person in C&D recycling with its annual C&D Recycler of the Year Award.

"The establishment of a Hall of Fame provides a way to spotlight the pioneers and leaders in the C&D industry," said John Adelman, current CMRA president and president and CEO of CPRC Group. "But our goal with all these awards is to recognize excellence within the C&D recycling industry. It always means more when the recognition comes from one's peers."

Nominations will be reviewed and winners determined by a committee of CMRA. Entries are due by March 1, 2013 and can be sent via e-mail to info@cdrecycling.org.

C&D Technologies Names Miller as VP of operations

C&D Technologies Inc., a global manufacturer of energy storage solutions, named Jeff Miller as vice president of operations.

Miller's prior experience includes 23 years with Delphi Corporation and most recently as President of Miller Lean Realities. Miller has an MBA in Industrial Management from the University of Michigan and a Bachelor of Science in Electrical Engineering from Michigan State University.

Florida contractor wins Case challenge

Case Construction Equipment named Hubbard Construction the winner of the Case Community Challenge. The program recognized construction contractors for supporting their local communities with significant community service projects.

Hubbard Construction, Winter Park, Florida, received the award for donating labor, materials and the use of equipment in helping build 28 "mud volleyball" courts for the 19th Annual Mudd Volleyball Challenge for the March of Dimes. The event was held in Orlando, and attracted the participation of 164 teams from all over the state of Florida. The tournament raised approximately \$165,000, including matching grants, for the March of Dimes Central Florida Chapter.

Hubbard donated the use of a wheel loader, two excavators, a dump truck, water trucks and electric generators in preparing the eight acre event site. Crews from Hubbard also set up a stage, a mobile office and a 260' long tent at the site that served as hospitality headquarters for teams raising \$1,500 or more. The project required a few weeks of site preparation and another week to restore the site following the event.

As grand prize winner of the Case Community Challenge, Hubbard Construction received one year's free use of a Case 580N loader/backhoe. In addition, Case made a \$5,000 cash donation to the March of Dimes.

Semifinalists and their projects also received awards.

Semifinalists for the Case Community Challenge award received a \$1,000 CNH parts and service reward card, and the charities their projects supported received a \$1,000 donation from Case. Semifinalists were:

- Michael O'Keefe Ltd., Windsor, Ontario, for its work in developing Canada's first Miracle League baseball field for special-needs athletes in the southern Ontario town of Amherstburg. O'Keefe used a fleet of Case excavators, crawler dozers and loader/backhoes to provide drainage, sub-base, base and final grading for 25 acres of the site.



Case Community Challenge grand prize winner, Hubbard Construction received one year's free use of a Case 580N loader/backhoe. Pictured from left to right are Jim Bansen, Case territory sales manager; David Moore and Bob Ramos, Trekker Tractor; James Ankrum, Jr., Freddy Cruz and Gregoria Estrella (seated on the loader/backhoe), Hubbard Construction Company.

- Evergreen Remodeling, Corbett, Oregon, for contributing labor and equipment toward the construction of Corbett High School's football stadium, dedicated to the memory of Jeff Lucas, a Corbett High graduate and U.S. Navy Seal killed in action in 2005 during service in Afghanistan.

- Creekside Lawns, Marilla, New York, for installing new underground power cable to provide upgraded electrical service throughout Camp Greene. The camp is used by the New York District Royal Rangers, an adventure program and local ministry designed for boys and young men ages 5 to 17.

- Reames Concrete, Valdosta, Georgia, for participating in the second annual week-long Freedom Build, organized by the Valdosta-Lowndes County Habitat for Humanity. A complete home was built to honor the U.S. military and those who lost their lives in the September 11. Reames Concrete excavated and poured the concrete foundation and driveway.

- Seneca Landscapes, Wake Forest, North Carolina, for helping build the first "green-certified" home built in Raleigh by Habitat for Humanity of Wake County, North Carolina. Seneca designed and installed landscaping that helped create a resource-efficient home.

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Terry & Mary Mandel - Mega U Pull, El Paso, Texas

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BUSINESS BRIEFS

Roegner named CEO of Alcoa Investment Castings

■ Alcoa has named Eric Roegner chief operating officer of Alcoa Investment Castings, Forgings and Extrusions.

Roegner has been president of Alcoa Forgings and Extrusions since 2009 and has led Alcoa Defense since June 2012. In his new role, Roegner will have responsibility for Alcoa's Power and Propulsion, Forgings and Extrusions, Oil and Gas, and Defense businesses. He will also serve on Alcoa's executive council, the senior leadership team that sets strategic direction for the company. Roegner will continue to report to Olivier Jarrault, executive vice president and group president, engineered products and solutions.

Succeeding Roegner as president, Alcoa Forgings and Extrusions is Jacques Vanier, who had been COO, Forgings and Extrusions, since January 2012. Both Vanier and Mike Pepper, president of Alcoa Power and Propulsion, will report to Roegner.

Roegner joined Alcoa in 2006 as chief operating officer of Global Extruded Products. In 2007 he became the president of Global Hard Alloy Extrusions.

Jacques Vanier rejoined Alcoa in 2010 as the chief operating officer of extrusions and assumed operations responsibility for forgings in 2012. Prior to rejoining Alcoa, Vanier was the vice president of manufacturing at American Commercial Lines. Earlier in his career, he held several leadership assignments including director of global manufacturing and operations, Alcoa Transportation Systems, and director of manufacturing for Alcoa Soft Alloy Extrusions.

Global Green appoints new board member

■ Global Green Matrix Corporation appointed Herbert Towning to the board of directors effective immediately.

Towning has been on the company's advisory committee since February 2012.

Towning joined CT Bowring & Co in 1956 and worked with various Banking Houses in London, leaving the UK in 1974 to commence an international banking career in Europe, the United States, Bahamas and the Arabian Gulf with the International Investment Corporation Bahrain until 1994.

In the last few years, Towning has become involved in environmental issues particularly waste management and recycling. He founded OWaste2Energy Company Ltd. in the UK with a waste to energy technology in Wales. This system is now operational in Mexico through his Mexican Company OWaste Mexico de CV which has joint ventures with certain Municipalities in Mexico.

Towning's extensive background and experience provides him a unique ability to make business decisions and create opportunities.

Bunting Magnetics appoints field service reps

■ Bunting Magnetics Co. has made several appointments to the Bunting field sales organization for industrial products.

Jason Cohen will cover Texas and Oklahoma. Darrick Litten will work in Ohio, West Virginia and Western New York, and Dan Murphy will cover Illinois and Wisconsin.

Moley Magnetics completes agreement

■ Moley Magnetics, Inc. of Lockport, New York and GI-DA S.r.l of Pompiano, Italy have completed a supply agreement. GI-DA is set to supply magnet systems for material handling in shipping and in steel mills as well as magnetic separators for the recycling industry. The specific types include cross belt, induction, plate, drum and head pulley-style magnets.

GI-DA has over 20 years of experience in magnet system design and manufacturing. The company builds complete magnetic material handling systems and provides consulting work for steel mills. With this new partnership, Moley Magnetics will now offer complete magnet solutions for the scrap, demolition, recycling, steel mill and shipping industries.

Winchester named CEO of MaxWest Environmental

■ MaxWest Environmental Systems, Inc. named Steven D. Winchester as the organization's new chief executive officer.

Winchester, a MaxWest board member since the beginning of 2012, has been leading the company as interim chief executive officer since August of 2012. He brings to MaxWest a strong background in mergers and acquisitions and leadership in support of aggressive growth strategies.

Prior to joining the leadership team at MaxWest, Winchester was chief executive officer of Winchester Consulting Group, LLC and has served in senior management roles in the water and wastewater divisions of engineering firms Psoomas and Black & Veatch.

What is the difference between a cat and a comma?

A cat has claws at the end of its paws, but a comma shows a pause at the end of a clause.

Industry leaders appointed to advisory committee

■ The U.S. Department of Commerce recently appointed two U.S. solid waste and recycling industry leaders to the U.S. Environmental Technologies Trade Advisory Committee, a group that advises the government on expanding U.S. exports of environmental technologies, goods and services.

Ronald J. McCracken, the principal of RJM Associates and a trustee of Environmental Industry Associations (EIA), and Janice Comer Bradley, EIA executive vice president of EIA's Waste Equipment Technology Association (WASTEC), joined the government committee.

McCracken and Bradley's appointments are effective through September 24, 2014.

Sims Recycling Solutions expands into Quebec

■ Sims Recycling Solutions, Canada, expanded into Quebec with their newest electronics recycling facility. Sims has expanded their current recycling service offerings of waste electronic and electrical equipment (WEEE) for consumers, businesses, governments and provincial programs throughout Canada. The new 55,000 sq.ft. facility is located in Laval, Quebec, in the greater Montreal area. It joins the two sites operating in Ontario, and one in British Columbia to provide truly national Canadian service.

The new facility has been established to uniquely serve the Quebec market given the establishment of the Quebec WEEE stewardship regulations, Direction des matières résiduelles et des lieux contaminés – Service des matières résiduelles/ Regulation Respecting the Recovery and Reclamation of Products by Enterprises, which took effect July 14, 2012.

The Canadian operations are currently ISO 14001:2004, OHSAS 18001:2007, RCMP and Controlled Goods Approved, RQP (2010) and Responsible Recycling (R2) Practices certified.

Events Calendar

March 10th-13th

The 26th Southeast Recycling Conference & Trade Show. Hilton Sandestin Beach Golf Resort & Spa, Destin, Florida.
800-441-7949 • www.southeastrecycling.com

March 13th-15th

13th International Automobile Recycling Congress IARC 2013. Brussels, Belgium.
41 62 785 10 00 • www.icm.ch

March 20th-21st

Spring 2013 Association of Postconsumer Plastic Recyclers Meeting. Sheraton New Orleans, New Orleans, Louisiana.
202-316-3046 • www.plasticsrecycling.org

March 20th-22nd

Global Plastics Environmental Conference. Sheraton New Orleans, New Orleans, Louisiana.
810-223-1949 • www.sperecycling.org

April 2nd

NERC Spring Workshop, Textiles Reuse and Recycling. Nathan Hall Inn at the University of Connecticut, Storrs, Connecticut.
802-254-3636 • www.nerc.org

Auction Calendar

February 8, 8:00 am

10500 Clark Petersen Blvd., Las Vegas, NV: Material handlers and other heavy equipment. Ritchie Bros. Auctioneers.
800-211-3983 • www.rbauktion.com

February 10, 9:00 am

12601 State Road 545 North, Winter Garden, FL: Tires, attachments for: Hydraulic excavators, rubber tired loaders and more. Alex Lyon & Son.
407-239-2700 • www.lyonauction.com

February 11, 8:00 am

651 W. Southport Road, Kissimmee, FL: 39th Annual 7 Day Winter Auction. Yoder & Frey Auctioneers, Inc. 800-842-6221
www.yoderandfreyauctioneers.com

February 18, 8:00 am

700 Ritchie Road, Davenport, FL: Material handlers, granulator, shredder and other heavy equipment. Ritchie Bros. Auctioneers.
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BUSINESS BRIEFS

Financing approved for Rumpke recycling facility

■ Rumpke Consolidated Companies, Inc. was authorized to receive \$32 million in financing by the Ohio Air Quality Development Authority (OAQDA) for a new recycling plant in Cincinnati. The new plant will replace a predecessor facility that was severely damaged in a fire in April 2012.

Under the financing package, OAQDA authorized the issuance and sale of up to \$32 million in Exempt Facility Revenue Bonds. The authorization was OAQDA's first-ever federally tax exempt financing for a recycling facility. The bonds will be issued in two series, as Series A and Series B.

The new 84,000 sq. ft. recycling plant will employ 110 workers and process residential and commercial materials through a dual infeed processing system at 55 tons per hour of residential material and 20 tons per hour of commercial material. The processing and baling systems to be installed include six optical scanners for sorting fiber and containers, two eddy-current separators for aluminum, an electromagnet for ferrous scrap and an extensive mixed-glass removal system.

Groundbreaking for the new facility was in December, with project completion scheduled for October 2013.

Zenor leads Sennebogen sales in New England

■ Sennebogen has expanded its support with the appointment of Ryan Zenor as regional sales manager for its northeastern sales territories of North America.

Zenor will work closely with Sennebogen distributors and customers in the New England states and in the eastern provinces of Canada, from Manitoba to Nova Scotia.

Millbrook Capital enters waste equipment industry

■ Millbrook Capital Management Inc., a New York City-based investment firm, has created a new entity to enter the waste and recycling equipment industry.

The new entity, Wastebuilt Environmental Solutions, LLC, has acquired two companies: Stepp Equipment Company and Galfab, Inc. and is seeking similar acquisitions.

Upstate Shredding signs lease with Port of Albany

■ Upstate Shredding, located in Owego, New York, has signed a lease with the Port of Albany, New York. The 15 year lease comes with an option for two five-year extensions.

Upstate Shredding will build and operate a scrap metal facility on the 18 acre site at the port.

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REDWAVE SEPARATES TRANSPARENT AND WHITE HDPE

BT-Wolfgang Binder, reacting to customer demands for a machine able to separate transparent and white colored HDPE, has debuted Redwave optical sorting technology. Working with near-infrared and color detection technologies, the Redwave can reliably separate higher-value transparent HDPE from white and other colored materials.

Redwaves optical sorting can also be used to sift high grade PET materials such as clear bottles from low-grade materials in a single pass.

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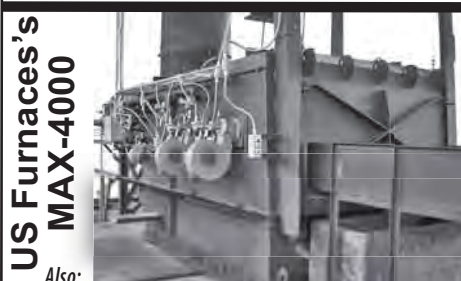
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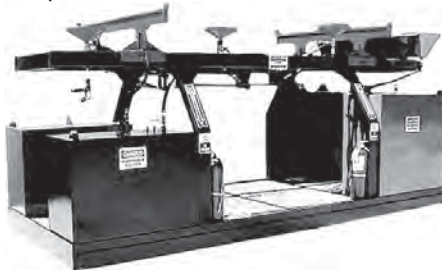
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Demand rises for post-consumer plastic

by MARK HENRICKS

mhenricks@americanrecycler.com

Through 2016, growth in domestic plastic recycling is described as healthy but not tremendous by Kent Furst, senior polymers analyst at Cleveland market research firm The Freedonia Group. U.S. demand for post-consumer recycled plastic is expected to rise 5.9 percent annually to nearly 3.4 billion lbs. in 2016, according to a new study Furst authored.

Behind that overall trend are a number of smaller developments, ranging from greater use of lightweight plastic packaging to more interest in energy recovery, that will shape plastics recycling in the next few years. Plastic recycling has the potential to grow more strongly, but not until all participants get their acts together. The anticipated collection growth rate of five to six percent annually is somewhat less than anticipated growth in demand, Furst noted, highlighting the challenge of collecting sufficient material to meet demand.

"It's the nature of recycling markets that everything has to come together – collection, processing capacity, end-user demand and pricing – for the industry to be successful, and this is why we are unlikely to see stronger growth going forward," Furst said.

Not all forces are under the control of the players in the domestic industry.



U.S. demand for post-consumer recycled plastic is expected to rise 5.9 percent annually to nearly 3.4 billion pounds in 2016.

"The export market is always a major wild card in the plastics recycling industry, since so much scrap plastic collected in the U.S. is sent overseas," Furst noted. "China has enacted stricter controls on scrap plastic imports in the last year that should reduce volumes, but it is always unclear how tightly these measures will be enforced."

One of the major domestic developments Furst sees is increasing involve-

ment by beverage bottlers and other major consumer products brands. "These companies are becoming increasingly focused on sustainability, including the use of recycled plastic content and the recyclability of their products," he said. "In addition to generating demand for recycled plastic resin, brand owners are shifting the industry dynamic by making direct investments in recycling operations, though joint

ventures and major purchasing agreements."

Furst warned that the modest increases in collection of plastics for recycling, coupled with rising exports, creates a problem. "Something will have to give – either increases in collection or decreases in scrap plastic exports – or a lot of processors will go out of business," he said.

See PLASTIC DEMAND, Page 6

Bottled water ban in Toronto now in effect

A recent law approved by the city council of Toronto has prohibited the sale and distribution of water bottles in all civic centers, facilities and parks.

The ban provides exceptions for public health and safety related situations, previous lease agreements and authorized special events in city facilities. Water bottles may still be sold or distributed at some exempted location. Although many believe that bottled water is no threat to the environment

due to the recyclability of plastic materials, Toronto's city council has recently approved a prohibition of the sale and distribution of these products.

A recent report released by Toronto explained, "In December of 2008, city council approved a water bottle ban to take effect in January of 2012. The ban, which affects most of Toronto's parks and park facilities, prohibits the sale and distribution of water bottles in all civic centers, city facilities and parks."

The water bottle ban will support the Toronto's broader waste diversion goals, reduce litter in our parks and lower waste disposal costs for the city.

Toronto recommended that permit holders for sports fields and facilities do the following when using park locations included in the ban:

- Inform participants of their sports programs to bring their own refillable water bottles to the park.

- Encourage coaches to support players by providing water jugs to refill their bottles.

- Notify coaches and program participants that water bottles can also be filled at water fountains, where available.

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A Letter from the Editor

Readers,

Localities across the United States and Canada are banning the sale of bottled water. Am I the only one scratching my head in puzzlement?

The purported reason for enacting such bans is to protect the environment from the dangers of discarded plastic bottles. Concord, Massachusetts has a law that targets only single-serving sized bottles of non-sparkling water in PET containers. Any store found to be selling them in violation is subject of non-criminal fines up to \$50 per violation.

But what about the unhealthy drinks that those same stores sell in similar sizes? Are the bottles containing Coke, Pepsi and other caffeine and sugar-laden beverages any less environmentally dangerous, or somehow more recyclable? Of course not.

At what point do we stop and say, "Enough is enough?" Where do we draw the line in the sand and say that we have quite enough government oversight in our lives, thank you very much?

This column comes at a time when our federal government is considering banning something that in my opinion is of even more import than bottled water. I'm speaking, of course, about the so-called "Assault Weapons Ban" introduced by Senator Diane Feinstein that would severely restrict our freedom to keep and bear arms.

A war is being waged in legislatures across the country against citizens who embrace our American heritage of independence and self-sufficiency, and eschew reliance on government protections. Policy makers are trying to protect every individual from every conceivable harm, and in doing so, have begun to micromanage the lives and decisions of We the People.

I, for one, do not need to be told that I cannot super-size my soda. If a small size soda isn't enough, then by God, I'm going to splurge and order a second! I don't need the government deciding that tap water is just as good as bottled, and that therefore, I shouldn't be able to buy bottled water in stores. Some of us like to drink water that hasn't been polluted with fluoride and other chemicals.

And I certainly don't need the government to protect me and my family. I'm asking all of our freedom-loving and liberty-minded readers to please call, e-mail and write your legislators and tell them in no uncertain terms that we don't need another ban. We don't need more government intervention – we need far, far less of it.



Dave Fournier
Focus Section Editor
david@americanrecycler.com

International Paper to sell Temple-Inland Building Products Division for \$750 million

International Paper (IP), a global paper and packaging company with manufacturing operations in North America, Europe, Latin America, Russia, Asia and North Africa, has reached an agreement to sell its Temple-Inland Building Products division to Georgia-Pacific, LLC for \$750 million in cash, subject to certain pre- and post-closing adjustments. The assets to be sold include 16 manufacturing facilities – 5 solid wood mills, 4 particleboard plants, 2 medium-density fiberboard plants, 1 fiberboard plant and 4 gypsum wallboard plants.

Temple-Inland Building Products facilities are located across 8 states, primarily in the southeastern and eastern portions of the United

States, with access to 5 of the top 12 housing markets.

The transaction is expected to be completed in the first quarter of 2013, subject to satisfaction of various closing conditions, including obtaining required governmental approvals. IP intends to use the proceeds from the sale to reduce its debt.

Additionally, the company announced its intention to report a new adjusted EPS measure, 'Operating Earnings' beginning with the fourth quarter 2012 earnings release. Operating earnings is defined as earnings from continuing operations excluding special items and non-operating pension expense, which is impacted by changes in interest rates and plan returns. Significant declines

in interest rates over the past several years have caused an extraordinary increase in certain components of pension expense that the company considers to be unrelated to underlying operating performance.

This move will thereby reduce the volatility in earnings from non-operational factors and improve the transparency of the performance of current operations. For the 9-month period ended September 30, 2012, non-operating pension expense was approximately \$.18 per share on a continuing operations basis. The company will provide further information concerning the new reporting format with their next quarterly earnings release.

Concord, MA enacts water bottle ban

The International Bottled Water Association (IBWA) issued the following statement regarding the banning of bottled water sales in Concord, Massachusetts.

"On January 1, 2013, a law prohibiting the sale of single-serve non-sparkling, unflavored drinking water in PET plastic containers of one liter (34 ounces) in size or less went into effect. This ban also includes bottled water sold in cases and individual bottles sold via vending machines. IBWA opposes this ban on a healthy, safe, convenient and refreshing beverage choice.

"IBWA continues to work with its members, the Northeast Bottled Water Association (NEBWA), Massachusetts business and industry associations, and citizens and businesses in Concord to prepare for next steps in the fight against the law. Reflecting local opposition to the ban, on January 2, 2013, the group Concord Residents for Consumer Choice filed a petition to repeal the law at the April 2013 Town Hall meeting.

"People need to drink more water. The consumption of water, whether from the bottle or the tap, is a good thing and supports people's pursuit of a healthy lifestyle. Any actions that discourage people from drinking bottled water are not in the public interest. People choose bottled water for several reasons, including its refreshing taste, reliable quality, zero calories and additives, and convenience. Banning or restricting access to bottled water in the marketplace directly impacts the right of people to choose the healthiest beverage on the shelf. And for many, bottled water is a critical alternative to other packaged beverages, which are often less healthy. Bottled water must therefore be available wherever packaged beverages are sold.

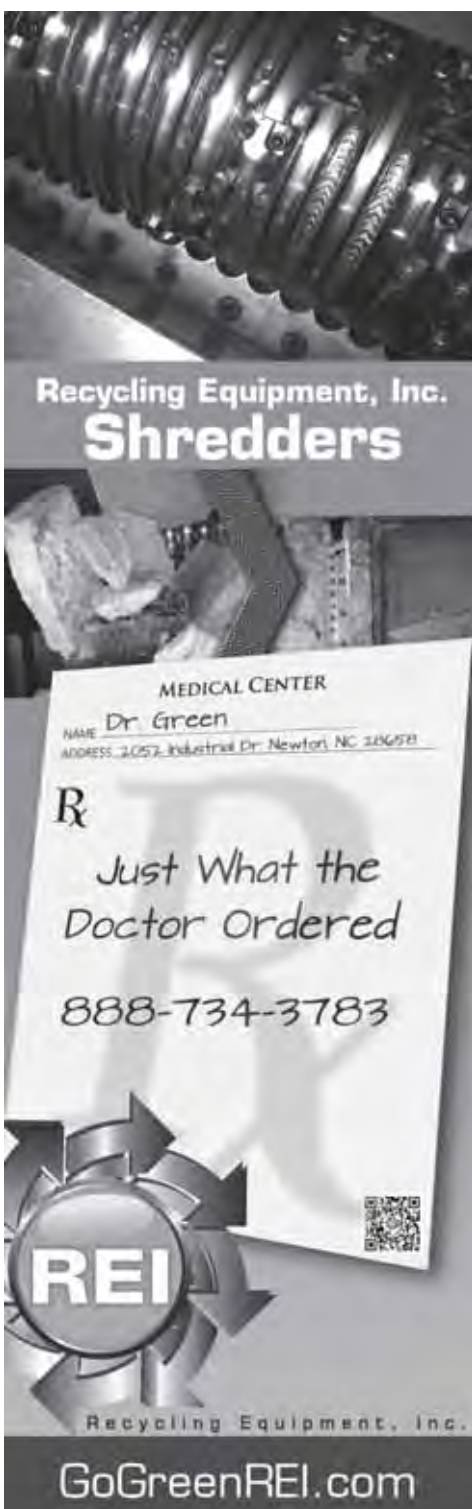
"For those who want to eliminate or moderate calories, sugar, caffeine, artificial flavors or colors and other

ingredients from their diet, choosing bottled water is the right choice.

"With one-third of American adults now considered obese, and an increase in children's obesity rates from 5 to 17 percent over the past 30 years, drinking lower or zero-calorie beverages, such as water, instead of sugary beverages is regularly cited as a key component of a more healthful lifestyle. Now more than ever, picking bottled water is a smart decision and a healthy choice when it comes to beverage options.

"The bottled water industry supports a strong public water system. However, the water from public water systems is often compromised after emergency situations or natural disasters (e.g., hurricanes, floods, tornados, fires or boil alerts). During these times, bottled water is a necessary and reliable option to deliver clean, safe drinking water.

"This ban deprives Concord residents and visitors of their choice of beverages, deprive the town of needed tax revenue, and harms local businesses that rely on bottled water sales."



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JUN	RUBBER	05/17

When a waitress in a New York restaurant brought him the soup du jour, a visiting Englishman was a bit dismayed. "Good heavens," he said, "what is this?" "Why, it's bean soup," she replied. "I don't care what it's been," he sputtered. "What is it now?"

AF&PA paper reports

The American Forest & Paper Association released its November 2012 U.S. paper reports.

Containerboard

Containerboard production fell 1.5 percent over October 2012 but rose 1 percent over the same month last year. However, the month-over-month average daily production increased 1.7 percent. The containerboard operating rate for November 2012 gained 0.6 points over October 2012, from 96.3 percent to 96.9 percent.

Boxboard

Total boxboard production increased by 2.1 percent compared to November 2011 and increased 1.7 percent from October. Unbleached Kraft Boxboard production increased over the same month last year and increased compared to October. Total Solid Bleached Boxboard and Liner production increased compared to November 2011 and increased compared to last month. The production of Recycled Boxboard increased compared to November 2011 but decreased when compared to last month.

Recovered Fiber

Total U.S. industry consumption of recovered paper in November was 2.36 million tons, 5 percent lower than in October 2012. Inventories increased for most grades. Year-to-date total consumption in 2012 is 4 percent lower than during the same period last year.

U.S. exports of recovered paper showed strong gains across all grades, except for High Grade Deinking. Corrugated exports increased to levels not seen since April 2011. Year-to-date exports of recovered paper in 2012 are 6 percent lower than during the same period in 2011.

Printing-writing paper

Total printing-writing paper shipments decreased four percent in November compared to November 2011. Three out of the four major printing-writing grades posted

decreases compared to last November, with coated free sheet posting the only year-over-year increase.

Additional key findings:

November shipments of coated free sheet (CFS) papers increased year-over-year for the sixth time in the past 12 months. CFS shipments increased 1 percent when compared to November 2011 to 330,800 tons, the fourth highest total in 2012.

While uncoated free sheet (UFS) papers shipments decreased 2 percent compared to November 2011 to 705,500 tons, October exports increased year-over-year for the third consecutive month. Year-to-date shipments of UFS paper are down 3 percent compared to the same months in 2011. Exports of UFS increased year-over-year in October, up 15 percent. Year-to-date UFS exports are up 11 percent in 2012 compared to same 10 months in 2011.

November uncoated mechanical (UM) paper shipments decreased 24 percent when compared to November 2011, the twentieth consecutive month of year-over-year decline.

November shipments of coated mechanical (CM) papers decreased 5 percent compared to November 2011. Year-to-date shipments of CM are down 5 percent compared to the same 11 months in 2011.

Kraft Paper

Total Kraft paper shipments were 120.4 thousand tons, a decrease of 11.2 percent compared to the prior month. Bleached Kraft paper shipments increased year-over-year 21.2 percent. Unbleached Kraft paper declined 15.7 percent year-over-year. Total month-end inventory increased 4.3 percent to 76.0 thousand tons this month compared to October 2012 month-end inventories.

Goodwill will recycle books

Goodwill Columbus and Book-destruction.com have joined efforts to ensure that all types of unwanted books can now be dropped off at Goodwill's donation centers and retail stores in Franklin County. The books will then be recycled by Creative Green Marketing LLC of Westerville, Ohio, rather than be sent on to area landfills. Members of the community, local organizations and individuals with developmental disabilities in Columbus will all benefit.

"Libraries and schools as well as local reading enthusiasts will now be able to drop off all kinds of unwanted books at Goodwill Columbus sites, knowing that they will be properly recycled to preserve our landfills," said Kevin Malinowski, the spokesperson for Green Marketing, the parent national recycler and environmental consulting company to Book-destruction.com.

In the past, Goodwill had to limit the types of donated books it accepted, taking only in-demand titles suitable for resale to its thrift store shoppers. As a result old books were often tossed into the trash where they ended up in area landfills.

Book-destruction.com and Green Marketing, will be purchasing unwanted books from Goodwill retail stores and turning them back into pulp for reuse in the making of paper products. Goodwill will be paid by the pound for the books and proceeds will benefit Goodwill's many day habilitation programs, community-based supported living services, employment training and job placement services for those with disabilities.

Sappi Paper rebuilds mill

Sappi Fine Paper North America (SFPNA), headquartered in Boston, Massachusetts, has approved a \$2.5 million capital project to re-build a specialty paper coater at its Westbrook Mill in Westbrook, Maine. The investment is comprised of an upgrade in the web handling, coating and drying capabilities of #20 coater. Bringing expanded manufacturing capacity and delivering higher yield, this upgrade allows Sappi's Release business to sustain market leadership with its Classics product line into the next decade.

"This is tremendous news for Westbrook Mill," said Donna Cassese, managing director, Westbrook Mill, SFPNA. "Over the past few years, we have made significant gains in safety, yield, equipment reliability and productivity. These accomplishments helped set the stage for the decision to invest in our Classics line."

The Westbrook Mill makes specialized release papers. The Classics line is used to provide the textures and patterns for synthetic fabrics used in automobiles, fashionable footwear and apparel as well as decorative laminate surfaces found in flooring, kitchens and baths.

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EQUIPMENT SPOTLIGHT

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

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

UPCOMING TOPICS

03/13	Asphalt Recycling Equipment
04/13	Magnets
05/13	Truck Scales
06/13	Grinders/Chippers

American Recycler is not responsible for non-inclusion of manufacturers and their equipment. Manufacturers are to contact American Recycler to ensure their company is listed in the Equipment Spotlight.

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EQUIPMENT SPOTLIGHT

Paper/Plastic Shredders

by MARY M. COX

maryc@americanrecycler.com

The more challenging the recycling application, the more likely a shredder is part of a viable solution for it. Whatever the materials involved, there are a wide range of

ing and liquid or pressure-seal systems, we are uniquely capable in solving many difficult customer process problems. We specialize in matching proven solutions to specific process problems – from stock and customized machinery to fully integrated systems.”

Greg Wright, sales director of Granutech-Saturn Systems, said, “We manufacture single rotor, dual shaft, and quad shaft shredders. Factors such as capacity, incoming form of material, cleanliness of material, and final product size requirements will determine which particular machine would work best.”

Granutech units can process from 1,000 lbs. per hr. to 20,000 lbs. per hr. and Wright noted that contamination of product is of particular concern for customers. “A bale of plastic or paper can often have something else inside. We’ve seen large bolts, wrenches,

Franklin Miller, Inc.

products available to aid in recyclables processing.

The Franklin Miller Inc. Taskmaster® Shredder is available in a variety of models and sizes, with motor options from 3 to 125 hp. Each unit is typically supplied complete with control, stand and standard hopper. The Taskmaster can be ordered as a stand-alone piece of equipment or as part of a complete shredding system, and units are available for dry, wet or pressurized systems. The Taskmaster products employ a low-speed, high-torque mechanism for powerful reduction of tough and bulky material. Efficient in a wide range of applications, the shredders cut storage and disposal costs, reduce scrap volume up to 80 percent and aid in the safe disposal of sensitive, sub-standard or hazardous materials.

The 90 year old Franklin Miller Company offers units for recycling, chemical processing, pharmaceuticals, foodstuffs, minerals, wastewater treatment and many other industries. William Galanty, president, said, “Due to our unique combination of experience in both dry solids process-

ing and liquid or pressure-seal systems, we are uniquely capable in solving many difficult customer process problems. We specialize in matching proven solutions to specific process problems – from stock and customized machinery to fully integrated systems.”

Along the way, Wright has noticed that clients increasingly prefer to minimize the number of suppliers involved on a given project. For instance, rather than separate suppliers for conveyors, air systems and magnetic separation, Granutech can provide a single source for all of that to their clients. He added, “With identity theft and fraud so rampant in our society, privacy is a big concern. Businesses want to feel confident in their ability to destroy sensitive items and we can help address that concern as well.”

With over 40 years in offering size reduction equipment to the recy-

cling industries, the company offers the MAC line of car crushers and logger balers, Saturn Shredders and Granutech tire processing equipment. The firm serves clients in the metals, tires, rubber, electronic scrap, paper, plastic and alternative fuels markets.

Metso Recycling offers pre- and fine shredders for plastic and paper recycling. Their twin-shaft M&J EtaPreShred brand is a robust option for opening and pre-shredding of complete bales of any recycled material. No manual removal of the metal or plastic binders is required before feeding bales into the shredder. Any wrapping around the shaft is avoided due to the asynchronous shaft controls that have a self-cleaning system. The knife geometry has been refined over the past 20 years so that no pushing device is necessary and the self-feeding system maintains a high capacity in light materials. M&J pre-shredders are available as stationary electric or as diesel-driven mobile units. Capacities range from 5 to 30 tons per hour, depending on the required grain sizes, which vary from 100 to 450 mm.

For subsequent fine shredding, Metso offers M&J EtaFineShred single and twin-shaft models that include high capacity, a clean cut and output sizes down to 8 mm. The shredders produce 15 tons per hour of RDF at an output size of 40 mm. “All of the M&J machines can provide a



Granutech-Saturn Systems

long-lasting shredding solution due to well-proven quality, high run factor and a low maintenance cost. All is included with our worldwide service and sales organizations with 24/7/365 service support,” stated Henning

See SPOTLIGHT, Page 5

Manufacturer List

Allegheny Shredders
Evelyn Jefferson
800-245-2497
www.alleghenyshredders.com

Ameri-Shred Corp.
Steve Idalski
800-634-8981
www.ameri-shred.com

Franklin Miller, Inc.
David Schuppe
800-932-0599
www.franklinmiller.com

Granutech-Saturn Systems
Greg Wright
877-582-7800
www.granutech.com

Jordan Reduction Solutions
Richard Pyle
888-733-8248
www.jordanreductionsolutions.com

Komar Industries Inc.
Mark Koenig
614-836-2366
www.komarindustries.com

Metso Minerals Industries, Inc.
Adrian Quigg
717-849-7298
www.metso.com/recycling

Republic Machine
Jason Bradley
502-637-6778
www.republicmachine.com

Shred-Tech
Joe Roberto
800-465-3214
www.shred-tech.com

SSI Shredding Systems, Inc.
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www.ssiworld.com

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Spotlight

■Continued from Page 4

Lindbjerg, vice president M&J Business Unit, Metso Denmark A/S.

Dave Wilson, technical sales, SSI Shredding Systems, explained how heavy metal can be especially damaging to conventional grinders and single shaft shredders. "You must protect the downstream equipment! Slow speed shredders such as the SSI Dual-Shear® two-shaft machines are the most reliable technology for any recycling operation that will likely deal with foreign materials when shredding. These shredders are very seldom damaged, no matter what is processed.

"Our Dual-Shear shredders have excellent shock protection systems that protect the driveline from damage when the occasional contaminant is encountered. The cutters are designed to take all types of abuse. So, as the quality of the recyclable goes down, the need for more robust shredding equipment goes up," Wilson said. The processing rates of SSI machines vary from a few thousand lbs. per hour to 10,000 to 20,000 lbs. per hour. Higher throughput rates cost more on the front end for larger size equipment, but the cost per pound of finished materials is generally lower.

Wilson explained that bulky materials must be broken down into a smaller, more manageable size for recycling. Bulky materials can include baled paper, plastic, fibers or just

large items like plastic pallets, drums, cores, crates, or long unmanageable materials like PVC siding.

"There is no easy way to get bulky material downsized without putting it in a shredder with a large in-feed opening. Once these materials are pre-processed, they can easily be processed downstream. A common recycling system might consist of a slow speed shredder to pre-shred a HDPE plastic drum then further processing of the material can be performed with a conventional granulator.

"Some of the hardest materials to recycle are plastic or paper that has a low melting point characteristic. For example, plastic tape with adhesive or waxed cardboard are materials that can be troublesome to process. Conventional high-speed shredding can often result in a 'melt down' when processing this type of material. Heat is generated when processing and if the material melts, equipment performance is impeded. The only way to process the material is with a slow speed shredder. Slow speed technology generates very little heat or friction when shredding. The low speed cutting action can reduce low melt materials down to size for further processing with minimal chance of a melt-down," stated Wilson.

He also noted the importance of shredding relative to identity theft,



SSI Shredding Systems, Inc.

counterfeiting and brand protection and he commented, "Manufacturers want the brand or logo on their products or packaging to be destroyed prior to the material going to a recycling center. Paper labels are an example of a material that lends itself to shredding for security purposes, prior to recycling. Processing recyclables in the paper and plastic world are more challenging than ever. What is left is the low grade material with contaminants, dirt, abrasives and multiple characteristics that make recycling more difficult. Here's the good news: SSI offers industrial shredding equipment that can handle this type of waste."

Portland's plastic bag ban criticized

The Portland city council voted to expand the city's plastic bag ban, impacting retailers larger than 10,000 sq. ft. on March 1, 2013, and the remaining retailers on October 1, 2013.

The following is a statement from Mark Daniels, chair of the American Progressive Bag Alliance, an organization representing the United States' plastic bag manufacturing and recycling sector, which employs 30,800 workers in 349 communities across the nation – whose jobs depend on plastic bag manufacturing and recycling.

"The expansion of Portland's bag ban will continue to have a negative impact on consumers, and, ironically, the environment. Portland residents will be forced to purchase even more reusable bags which cannot be recycled, are predominately imported from China, and have been proven to harbor dangerous bacteria. Those interested in real solutions to reducing litter and protecting the environment should pursue scientifically sound, common sense policies – ones that encourage a comprehensive statewide recycling solution that address all forms of plastic bags, sacks and wraps – instead of targeting one product that makes up a fraction of a percent of the waste stream."

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A Closer Look

by Donna Currie

Impact Plastics

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Gary Cardoza, the vice president of sales and marketing for Impact Plastics, said that the company is "a supplier of container lids for the solid waste and recycling industry." Besides making those dumpster lids, the company also sells parts for dumpsters and roll-off containers.

Prior to working for Impact Plastics, Cardoza worked for 20 years for a company that made lighting products. In the eight years he has been with Impact Plastics, he said he has seen the company grow exponentially.

Founded in 1999, the company currently has 25 employees and a 70,000 sq. ft. facility. All of the company's products are American-made. "We do a lot with very few people," he said. The company's focus is on making high-quality products at a fair price while also incorporating recycled materials and green manufacturing.

Cardoza said that there are some standard sizes for dumpsters in the U.S., generally by region, but even with the standardization, there are probably 100 different sizes of containers. Internationally, he said, the sizes are even more diverse, so there are a lot of potential lid sizes a customer might ask for.

The lids made by Impact Plastics are vacuum-formed, which Cardoza said makes a stronger but more supple product. Not content to make a standard, unchanging product line, the company is constantly talking to customers and designing new products and tweaking old ones to work better.

The product he said was the coolest is the double-impact lid that is specifically designed with thickened areas to "keep it on the container longer."

"Buying lids is cheap," Cardoza said, "but replacing them is expensive." He said that the cost of a lid is actually less than 20 percent of the cost of replacing a lid, not to mention the downtime for maintenance.

He said that the company's lids last five to seven times longer than similar products, so even though they're more expensive to purchase, they cost less in the long run.

Lid durability depends on the materials used, the processes employed to make the lids, the blend of plastic, and the engineering and design. Cardoza said that an improperly designed lid will tear when it's in use. "There's more science than most people think."

When it comes to that plastic blend, he said that the company uses some recycled plastic in its blend, but that a lid made from 100 percent recycled material would not be durable enough. Much of the recycled material they use comes from their own customers who are in the waste and recycling industry.

Cardoza said that one of his favorite parts of his job is talking to the customers, from the owners of small hauling companies in small towns to CEOs of major waste hauling companies, about product development. "The job is not boring," he said.

As much as 95 percent of the innovations in products and design have come from customer input, so it's extremely important to listen to what the customers have to say. To make sure customers get heard, it's a company policy that phone calls are not sent to voicemail and people are not put on hold. To make it even easier for customers to communicate with the company on a day-to-day basis and more casual basis, Impact Plastics maintains a very active Facebook page.

Cardoza said that his customers would agree that the company delivers what it promises. "You can't unshake a hand," he said, and he is very proud of the company's integrity as well as the integrity of the products it sells.

However, it's a challenge to get the company's message to all the potential customers. "There are thousands of people picking up material," Cardoza said, and many of those companies would benefit from having lids on containers to keep out water, deter material theft, and keep out contamination.

Cardoza said he expects that over the next 5 to 10 years the company will continue to "go where the market dictates we go," with new products and innovations. "The world is wide open to us," he said.



—The Impact Plastics Team

Plastic demand

■Continued from Page 1

A trend toward lighter plastic bottles has made conditions tougher for collectors and processors, since lower-density materials challenge conventional recycling business models. "However, the total volume of plastic bottles in the marketplace will continue to increase," Furst said, "so it's not like there will be a shortage of recyclable material available to process."

He also identified contamination of plastic in the recycling stream as a big issue. "Although improved sorting technology has made it easier to process mixed waste streams, yield rates for plastic recyclers have fallen sharply in recent years," he said. "Non-compatible labels, adhesives and inks have also not helped."

While bottle recycling rates seem to have plateaued, new sources of recyclable plastics have been growing. Furst expects collections of thermoformed PET containers, rigid HDPE and PP packaging to grow substantially over the next five years.

Steve Russell, vice president of plastics at the American Chemistry Council in Washington, D.C., likewise identified as an important trend the expansion of recycling to more containers, especially non-bottle rigid plastics used in applications such as yogurt cups and electronics housings. "There's been dramatic growth in recycling of those," he said. In 2010, according to a study sponsored by the council, nearly 820 million lbs. of post-consumer rigid plastics were collected for recycling nationwide, up 72 percent from 2009 and 154 percent since 2007.

Film is another growth area. Recyclers recover about 1 billion lbs. of pallet wrap, newspaper bags, dry cleaning bags and other plastic films annually, Russell said, and that amount is up by 50 percent from 5 years ago. He credits growing consumer awareness that they can recycle more types of plastic wrap at more collections points.

Russell also points to single-stream collection programs as an important

trend in plastic recycling "When communities are adopting recycling programs, they are increasingly initially adopting single-stream," he said. "When communities are revising their recycling, they're most often revising toward single stream."

As single-stream recycling grows, so does consumer confidence that materials are recyclable. "So more material is getting into the system," Russell said. "That's having an effect on the amount of high-quality materials being recovered from the stream."

Another important trend, according to Russell, is more interest in integrated recycling operations that focus on energy recovery. Following the example of Europe, U.S. cities are starting to look at combining mechanical recycling with energy recovery as way to avoid land-filling. Increasingly, they're recognizing that plastics have significant energy content, and examining technologies such as pyrolysis and gasification as means to harvest that energy while diverting materials from landfills.

"That's increasingly attractive here in the US, particularly as we think about ways to meet alternative energy needs," Russell said. It's even more appealing in states that have mandated landfill diversion targets. "Communities are increasingly finding that municipal solid waste is a way to help them get there," Russell said.

Although for the next several years growth will be moderate, the long-term plastic recycling outlook is strongly positive. For instance, Furst said that added processing capacity on the West Coast is likely to significantly reduce exports to China and the effect of that wild card on the industry.

In general, greater awareness of and interest in plastic recycling by all the players in the field is likely to increase and drive growth. "If brand owners continue to see the value of plastic recycling and participate in the industry," Furst said, "we may begin to see things like expanded container deposit laws and extended producer responsibility programs — measures which have the potential to really boost recycling rates in the US."

It had been snowing for hours when an announcement came over the intercom: "Will the students who are parked on University Drive please move their cars so that we may begin plowing?" Twenty minutes later there was another announcement: "Will the 900 students who went to move 14 cars please return to class?"

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