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Lighter vehicles coming to scrap yards

by MIKE BRESLIN

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The U.S. Environmental Protection Agency (EPA) and the National Highway Traffic Safety Administration (NHTSA) have proposed new rules to set stringent fuel and emissions requirements for vehicles for model years 2017 to 2025. Further, the new proposed rules signal EPA's interest in examining the entire lifecycle of a vehicle, including the environmental costs of initial production and ultimate end-of-life recycling. According to the rulemaking, the EPA seeks comment on studies and research regarding "the fuller range of health and environmental impacts of light duty vehicles" and on "life cycle impacts of future advanced technologies." The new rules expand on existing standards requiring American-made cars and light trucks to average 34.5 mpg by 2016. In 2012, the Obama administration announced even stricter new vehicle fuel efficiency standards that require the U.S. auto fleet to average 54.5 miles per gallon by 2025.

No question that newer, stronger and lighter vehicles will be incorporating greater quantities of lighter materials like aluminum, advanced high-strength steel (AHSS), carbon fiber, resins and plastic in the quest to meet these ever more stringent fuel economy and emission standards.

The new Ford F-150 pickup truck is an example of the type of vehicles that will be coming to the local scrap yard. This model has been the country's best-selling truck for 37 years and best-selling vehicle of any type for 32 years. The new F-150 is built with an increased use of high-strength steel and aluminum, which contributes to cutting off 700 pounds compared to the previous model. That's a huge weight-loss and a major shift in the composition of materials.

Aluminum's use in autos and commercial vehicles is accelerating because it



Auto recyclers can expect to see more light-weight vehicles hitting their yards. In terms of profitability, this will bring about a less-is-more situation.

PHOTO BY: SAM VARNHAGEN/FORD

offers a fast and relatively cost-effective way to increase performance, boost fuel economy and reduce emissions while improving durability. From mass-market vehicles like the Ford F-150 to luxury cars like Bentley, Tesla, Audi, Mercedes Benz and Land Rover, aluminum is increasingly being used by automakers because of its strength and environmental advantages. Even the 2015 Subaru Outback now has an aluminum hood.

According to a survey of automakers conducted by Ducker Worldwide, more than 75 percent of all new pickup trucks produced in North America will have aluminum bodies by 2025. The study reports that Ford, General Motors and Fiat-Chrysler will become the biggest users of aluminum sheet in the next decade. It also forecasts that the number of vehicles with complete aluminum body structures will reach 18 percent of North American production, from less than 1 percent today.

Meanwhile, another study conducted by Ducker Worldwide found that Advanced High-Strength Steels (AHSS) presently accounts for approximately 175 pounds per vehicle, but are projected to double by 2020 and nearly triple to 500 pounds per vehicle once the 54.5 mpg standard proposed in the rule is finalized.

To learn more about advanced high-strength steel, American Recycler spoke with Ron Krupitzer, vice president of the automotive market for the Steel Market Development Institute (SMDI). SMDI is a unit of American Iron and Steel Institute and promotes the use of steel by developing materials and applications for the automotive, construction and packaging industries.

"Advanced high-strength steel is a terminology we invented about 10 years ago to separate this current generation of high-strength steels from previous generations," said Krupitzer. "The new AHSS See WEIGHT LOSS, Page 6

U.S. Department of Transportation eliminates daily paperwork burden for trucking industry

U.S. Transportation Secretary Anthony Foxx disclosed that professional truck drivers will no longer have to comply with a burdensome daily paperwork requirement, saving the trucking industry an estimated \$1.7 billion annually without compromising safety.

"America's truckers should be able to focus more on getting their goods safely to store shelves, construction sites or wherever they need to be instead of spending countless hours on unnecessary paperwork that costs the industry nearly \$2 billion each year. This is a far better way to do business," said Foxx.

Commercial truck drivers are required to conduct pre- and post-trip inspections of their vehicles to identify any safety defects or maintenance concerns. The final rule removes the requirement that drivers file a report for approximately 95 percent of inspections when equipment problems or safety concerns are not identified.

The Department of Transportation's Federal Motor Carrier Safety Administration (FMCSA) estimates that professional truck drivers spend approximately 46.7 million hours each year completing Driver Vehicle Inspection Reports (DVIRs). Eliminating DVIRs when no

safety defects or mechanical deficiencies are identified will result in time savings valued at \$1.7 billion dollars annually.

FMCSA's No-Defect DVIR rule will be effective on the date it is published in the Federal Register.

In June 2012, FMCSA eliminated a comparable requirement for truck drivers operating intermodal equipment trailers used for transporting containerized cargo shipments. The cost savings to the intermodal industry was estimated to be \$54 million annually.

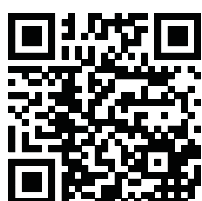
For a copy of the DVIR rule, view this article on www.AmericanRecycler.com.

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Emerging opportunities: The growth of industrial waste heat recovery

The three most common industrial waste heat management options are recycling within the same heating system, recovery of the waste heat to be used in other systems within the same plant and converting the waste heat to power.

New analysis from Frost & Sullivan, *Innovations in Industrial Waste Heat Management*, finds that of the three processes, converting waste heat to power will be the most preferred option in the future. Further, innovations in waste heat recovery will emphasize the recovery of low grade waste heat.

"Thermoelectric generators are expected to be the most sought after waste heat recovery technique, although much research is necessary before large-scale uptake is possible," said technical insights research analyst Lekshmy Ravi. "The high growth of thermoelectric generators will also boost the utilization of low grade waste heat."

The scope for industrial waste heat recovery is immense across the globe and particularly promising in the Asia-Pacific, which is a major manufacturing hub. The cement and glass manufacturing industries are potential forerunners in adoption.

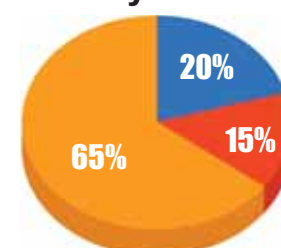
High capital investment, a long payback period, maintenance and safety requirements are some of the challenges limiting the implementation of industrial waste heat recovery technologies.

Convincing industries of the benefits of waste heat management will be crucial. Supportive government policies and incentives will also go a long way in enabling the widespread use of waste heat recovery.

"Industries with high energy intensity, which have customized solutions readily available, are likely to deploy waste heat management to a greater extent," said Ravi. "Other sectors will initially incorporate technologies with a low capital and short payback period as the first step towards incorporation of waste heat recovery."

LAST MONTH'S POLL RESULTS

**Would you buy
Timberland boots made
from recycled tires?**



- Yes, but only because I like the boots.
- No, I would not buy these boots.
- Yes, I like to support recycled whenever possible.

FLOR saves 3,000 pounds of used carpeting from landfills

FLOR Inc., revealed that the brand collected roughly 3,000 pounds of Denver, Colorado residents' used rugs and carpets on America Recycles Day. FLOR collected carpeting from more than 60 residents throughout the Mile High City that would have otherwise ended up dumped in a landfill, helping to minimize the estimated 4 billion pounds of carpet that is discarded in the U.S. every year.

The carpeting that was collected during the 1 day initiative is heading back to FLOR's distribution center near Atlanta, Georgia, where it will be recycled and repurposed into brand new carpet design squares that will be available for purchase through its 21 store locations and online at www.flor.com. In

exchange for participation, Denver residents were given a \$100 gift card towards the creation of their own area rug or carpet runner through a unique composition of FLOR's eco-friendly carpet design squares. Due to the success the brand saw in Denver, it plans on expanding this initiative to more markets throughout the United States in 2015.

Nearly all of FLOR's carpet design square styles are made 100 percent from recycled nylon, and through its Return & Recycle Program, which collects and recycles old carpet into new styles, the company has seen huge success since its launch in 1995, diverting more than 287 million pounds of materials from landfills.

Massachusetts voters reject expanded bottle deposit bill

Voters in Massachusetts turned down a proposal calling for an expansion of the state's bottle deposit law.

The ballot would have allowed for an automatic increase to the fee every five years, indexed to inflation. If a person does not recycle the can, the money goes back to the state, which meant the expansion would be a way to generate more money for the state. Environmentalists and other supporters said it would help reduce litter and encourage recycling.

The measure was opposed by the beverage industry and supermarkets that

worried about a new influx of containers being returned to stores. They said most residents have access to curbside recycling, which they argued was a more efficient way of disposing of used bottles and cans.

Janet Domenitz, executive director of the pro-consumer group MassPIRG, in a previous interview said research indicates that containers with a deposit are recycled 80 percent of the time; containers without a deposit are recycled 23 percent of the time.

The deposit law will continue to apply to beer and soft drinks.

Bigbelly Recycling bin useage up

BigBelly Solar disclosed that the Alliance for Downtown New York recently undertook a major expansion of its use of solar-powered Bigbelly waste and recycling units. The Alliance through a public-private partnership with Vector Media increased the number of high-tech recycling bins from 16 to 174. In making the purchase of the units possible, Vector

Media becomes the exclusive partner for the units' exteriors.

The Bigbelly stations allow for waste disposal, and recycling of paper or plastic and glass at each specified bin. Solar power drives the units' compacting capabilities, while remote monitoring via wireless technology notifies staff when units require emptying.

City of Philadelphia recycles at historic rate

Philadelphians are recycling at historic rates and the city's recycling office wants to provide tips for improving recycling in the future.

During fiscal year 2014, a record 128,000 tons of recyclable materials were collected through the city's curbside recycling program, city buildings and public spaces. The total tonnage represents a 155 percent increase in recycling since 2008. During this time, the Streets Department has initiated operational changes to its curbside recycling program.

Changes included:

- The introduction of weekly recycling pick up.
- The launch of single-stream.
- The addition of cardboard, plastics, and food and drink cartons as recyclable materials.

- The availability of new recycling bins for residents through distribution events and various community and civic groups.

- The initiation of an incentive-based recycling program.

Additional notable recycling and waste reduction efforts from the past year include:

- The implementation of Hunting Park Recycles, a partnership between the Streets Department and Recyclebank to increase the recycling rate in Hunting Park through intensive outreach.

- The development of the Business Recycling Toolkit, an easy-to-use resource for business owners that explains how and why to recycle and provides examples, best practices and resources.

- The introduction of Waste Watchers aided in recycling and composting 86 percent of the waste generated during the 2013 Philadelphia Marathon.

- A greater emphasis on special electronics and household hazardous waste collection events at the city's four Sanitation Convenience Centers.

- Grand opening of a new Sanitation Convenience Center in Strawberry Mansion.

New and on-going partnerships include:

- Keep Philadelphia Beautiful. An affiliate of national nonprofit Keep America Beautiful, Keep Philadelphia Beautiful engages residents to take greater responsibility for improving their community environments by providing resources, education, and assistance.

- Recyclebank. Allows residents to earn points that can be redeemed for discounts at participating retailers and restaurants based on the amount recycled and trash reduced. More than 195,000 households currently participate in the program.

- PECO. To announce increased rebates for customers as part of PECO Smart Appliance Recycling. Customers will now receive a \$50 rebate for recycling their older, energy-guzzling refrigerators – an increase of \$15. Inefficient refrigerators can cost customers up to \$150 a year in added energy costs. With PECO Smart Appliance Recycling PECO will also pick up older, working refrigerators and freezers for free and ensure the appliance is recycled and disposed of in an environmentally friendly manner.

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Increasing clothing recycling is the goal of the "Clothes the Loop" campaign

"Clothes the Loop" is the theme of a statewide campaign to promote clothing and textile recycling.

Throughout New York, municipalities are initiating an outreach campaign that encourages residents to "Clothes the Loop" by recycling their unwanted clothing and household textiles.

"By engaging local municipalities to promote clothing and textile recycling, the New York State Association for Reduction, Reuse and Recycling (NYSAR3) is making a great step forward in educating the public about the importance of keeping used clothing out of landfills," says Jackie King, executive director of Secondary Materials And Recycled Textiles (SMART) Association.

SMART is the international trade association of the for-profit textile and used clothing recycling industry, while the Council for Textile Recycling works to bring together all aspects of clothing recycling including manufacturers, retailers, consumers, academicians, and municipal employees.

According to NYSAR3, each year, New York State residents dispose of some 1.4 billion pounds of recoverable clothes and textiles, with an estimated market value over \$200 million. NYSAR3 estimates that some 9,600 jobs would be created across the state if that material was dropped off for reuse and recycling. Across the country, only 15 percent of recyclable clothes and tex-

tiles are actually recovered; 85 percent ends up in the trash.

SMART estimates the average person throws away 70 pounds of used clothing annually; of those 70 pounds, 95 percent could have been reused or recycled. Industry officials say only clothing that is wet (mildewed) or has been contaminated with a solvent such as gasoline, paint, or odorous cleaner cannot be recycled.

According to the Environmental Protection Agency's most recent report on municipal solid waste (2012), 14.33 million tons of waste is generated annually that is exclusively clothing and other household textiles. Of that amount, only 15.7 percent or 2.25 million tons is recycled.

The Recycling Research Foundation names winner of the 2014 National Scholarship

The Recycling Research Foundation (RRF), a nonprofit organization associated with the Institute of Scrap Recycling Industries (ISRI), named Joseph Grogan as the recipient of its 2014 National Scholarship. Recognizing the need for affordable graduate education, the scholarship awards \$5,000 to an individual seeking a graduate degree in a field that supports the scrap processing and recycling industry as a whole.

"The objective of my research is the development of a process to remove the zinc coating from galvanized scrap," Grogan said. "This process will accept galvanized scrap as a feed and produce

separate dezinced ferrous scrap and value added zinc products, recycling the galvanized steel in its entirety. Currently, it is planned that the dezinced ferrous scrap material will be used as an alternative feed material to a foundry which requires zero zinc fuming, for reasons including occupational health and safety concerns. I would like to thank my advisor Professor Corby Anderson, and the Center for Resource Recovery & Recycling (CR3) and National Science Foundation for their support of this research."

Grogan is a 2015 PhD candidate in Metallurgical Engineering at Colorado School of Mines, currently studying at

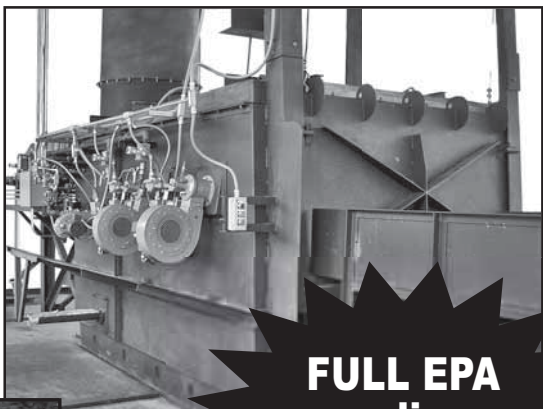
the Kroll Institute for Extractive Metallurgy. Prior to Colorado School of Mines, Joseph received a B.S. in Environmental Geochemistry from University College Dublin, in Dublin, Ireland, and a European M.S. in Minerals Engineering from Camborne School of Mines in the UK. He has experience in research and consulting, and has worked in a variety of mining and metals projects in commodities including steel, gold, uranium, copper, zinc, lead and REE. For his master's thesis, Joseph's research involved the recovery of base metals from metallurgical smelter slag. The research that he is currently working on for his PhD thesis is focused on galvanized scrap recycling, primarily in the areas of zinc hydrometallurgy and pyrometallurgy, corrosion electrochemistry and reagent recovery technology which is incorporated into process design and economic modeling to evaluate commercial viability.

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Events Calendar

January 20th-23rd

Compost 2015 Organics on the Rise: 23rd Annual Conference & Tradeshow. Renaissance Hotel, Austin, Texas. 301-897-2715 • www.compostingcouncil.org

February 25th-26th

Association of Postconsumer Plastic Recyclers Membership Meeting. Hyatt Regency, Dallas, Texas. 202-316-3046 • www.plasticsrecycling.org

March 8th-12th

28th Annual Southeast Recycling Conference & Tradeshow. Hilton Sandestin Beach Golf Resort & Spa, Destin, Florida. 800-441-7949 • www.southeastrecycling.com

March 23rd-27th

NPE 2015 International Plastics Exposition. Orange County Convention Center, Orlando, Florida. 202-974-5235 • www.npe.org

March 16th-18th

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

March 29th-31st

C&D World. New Music Center, Nashville, Tennessee. 630-585-7530 • www.cdrecycling.org

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Can Tabs for Kids Program extends to Valley Stream

On December 3, members of the Girl Scouts of Nassau County Troop #2029, Troop #2011 and Troop #2346 came to Gershow Recycling's facility in Valley Stream, New York to drop off 31 pounds of aluminum can tabs they collected over the past year as part of the Can Tabs for Kids program to benefit The Sunrise Fund. In addition, the Girl Scouts raised an additional \$200 for The Sunrise Fund from a bake sale they recently hosted.

Can Tabs for Kids benefits the Sunrise Fund at Stony Brook University Medical Center, an organization that raises funds for projects to assist families with children fighting childhood cancer.

As part of the Can Tabs for Kids program, children bring in aluminum tabs from soft drink and pet food cans that their parents purchased and place them in collection bins. The bags are then taken out of the bins and brought to Gershow, where the contents are weighed and recycled. In

addition to the amount paid for the weight of the can tabs, Gershow matches the amount raised.

Can Tabs for Kids began at William Floyd Elementary School in 2011. Maria Marks, a former William Floyd student who was diagnosed with cancer at a young age, was the inspiration for the program. Between the ages of two weeks and six months, she underwent chemotherapy sessions. The constant exposure to the radiation resulted in Maria losing her hearing and now she must wear hearing aids. Her cancer has since been in remission.

The Girl Scout troops from Valley Stream learned about the program when they were searching for a local charity that they wanted to help. They came across Can Tabs for Kids and decided to take part in the program. The troop members have also learned about recycling and organized many recycling events, which is another reason why they chose Can Tabs for Kids.



Employees of Gershow Recycling join members of Nassau County Girl Scout Troop #2029, Troop #2011 and Troop #2346. Pictured in the back row (left to right): Jose Bermeo, employee; Pete O'Donovan, manager; Arthur George, Moises Ulloa and Jose Jara, employees; and Jason Baron, manager.

EPA settles with Mack Trucks for pollution

In a settlement with the U.S. Environmental Protection Agency (EPA), Mack Trucks Inc. has agreed to properly manage the hazardous waste at its truck assembly plant in Macungie, Pennsylvania.

Mack Truck has also agreed to pay a \$54,800 penalty to settle the alleged violations of hazardous waste regulations.

EPA cited Mack Trucks for violating the Resource Conservation and Recovery Act (RCRA), the federal law governing the treatment, storage, and disposal of hazardous waste. RCRA is designed to protect public health and the environment, and avoid costly cleanups,

by requiring the safe, environmentally sound storage and disposal of hazardous waste.

After a facility inspection, EPA cited the company for several RCRA violations involving hazardous waste stored at the facility, including solvents and paint wastes. The alleged violations included: operating a hazardous waste storage facility without a permit or interim status; maintaining an open container of hazardous waste; failure to comply with regulations on hazardous waste marking and record-keeping; failure to comply with contingency planning safeguards; failure to provide

hazardous waste training to employees; failure to maintain documents and records for hazardous waste training; failure to comply with contingency plan requirements; and, failure to maintain a tank certification.

The settlement penalty reflects the company's compliance efforts, and its cooperation with EPA in the resolution of this matter. As part of the settlement, Mack Trucks has not admitted liability for the alleged violations, but has certified its compliance with applicable RCRA requirements.

Timken acquires Revolve Ltd.

The Timken Company has reached agreement with ERIKS NV to acquire the assets of Revolve Ltd., a specialty bearing company based in Dudley, U.K. Revolve makes and markets ball and roller bearings for industrial applications in process and heavy industries. The company's split roller bearing housed units are widely used by mining, power generation, food and beverage, pulp and paper, metals, cement, marine and waste-water end users. In 2013, Revolve posted sales of approximately \$8.3 million.

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Weight loss

■Continued from Page 1

have some alloy additions, but most of their added strength comes from heating and cooling. With the advanced high-strength steels we not only strengthened, but also increased formability simultaneously so this category is able to make more parts in higher-strengths and lighter weights.

"A lot of that strengthening went into making vehicles safer. We had many more crash tests in the 2002 to 2010 timeframe, but that together with better fuel economy requires more advanced high-strength steel. And so while you are looking at what happens when light-weight vehicles hit the scrap yard, we've already begun that trend in steels by replacing plain, or mild carbon steel with these high-strength steels and have been doing it steadily for about ten years. And we expect that will continue at least through 2025.

"AHSS is used just about everywhere in the vehicle, but the body is the biggest application right now. Over the last few years we've begun to introduce AHSS into chassis, frame and underbody applications. We've just seen a number of notifications by General Motors (GM) and Ford about their new frames on their pickup trucks using more AHSS. It's starting to work into the underbody.

"Vehicles today are really multi-material. We use a lot of different materials. For example, cast aluminum has gradually replaced steel for engine blocks and heads so there has been a remarkable growth in light-weighting in power-trains. Now aluminum is also working its way into bodies, but at the

same time it has competition from AHSS and magnesium and structural composites are also being considered. So I think there's going to be a continuing battle for materials in the vehicle, mainly body parts, but also for closures like doors and hoods. They are targets for light-weighting because they are fairly heavy. We're seeing studies of lightweight steel and aluminum doors being considered. But the lightweight AHSS solutions we have today are quite comparable to aluminum in terms of weight reduction. Manufacturers have to do some work in the stamping and assembly plants and they have to learn how to join AHSS, but most times they can use the same equipment they had used to make the heavier mild-steel vehicles. It's a big advantage to companies, cost-wise, if they can stick with steel. Steel offers great solutions to light-weighting challenges, but the car companies just have to work a little bit harder to apply AHSS because they are challenging to form, weld and put together. But in the end the cost is much less than other materials like aluminum, magnesium or carbon fiber. Repair and insurance costs are also more affordable in steel vehicles than in cars and trucks manufactured with alternative materials. Alternative materials not only require retooling of manufacturing and auto body repair facilities, but also extensive re-training for employees."

Krupitzer detailed a test case of a forged aluminum front, lower control arm that was being used by GM for mid-sized vehicles like the Malibu. For the study, a AHSS solution was used that weighed exactly the same as the aluminum part, but cost 34 percent less. The next year GM began replacing that forged aluminum part with lower cost



FLCAA: The lightweight steel front lower control arm (right) is the same weight as the forged aluminum design (left), but at a 34 percent lower cost.

PHOTO COURTESY OF THE STEEL MARKET DEVELOPMENT INSTITUTE

AHSS. Because the strength of the steel was much higher, less steel was used in the part. "That way we achieve light-weighting with AHSS by using less steel because the sections are thinner, stronger and more durable," Krupitzer added.

"So in the end we wind up with a vehicle that you have to buy less steel for. That's one reason why the cost is lower. If you save 25 percent of the weight of a given part with AHSS, it may cost a little bit more per ton, but the cost is very small or in some cases no cost increase at all as with the lower control arm made with AHSS. It has better strength and almost always a lower cost than aluminum. Aluminum will cost two to three times more than what a part will cost made out of AHSS," said Krupitzer.

"We've introduced these new steels effectively over the past 10 years and we haven't affected the waste stream, or recycling one bit. Does that mean in the future that we won't be changing steels so much that we have to pay attention to the recycling of vehicle bodies at end-of-life? We can't say never, but right now we don't see that as being an issue for 20 years or more. The grades we are using now are fully magnetic, they separate the same way as mild steel of the past and they can be used directly in the furnaces without changing the quality of the steel. Right now recyclers do not have to segregate AHSS from other steel," Krupitzer concluded.

Joe Pickard, chief economist and director of commodities for the Institute of Scrap Recycling Industries (ISRI) weighed in on lightening of vehicles. "It's been a challenging year for scrap metal recyclers, particularly so on the ferrous side. With respect to nonferrous, aluminum prices have held up better than most. We're seeing higher Midwest transaction premiums to secure aluminum because of the business demand and due to logistical bottlenecks including getting trucks and getting containers moved. So that's contributed to higher spot prices in the U.S.

"I think from an aluminum perspective, these are all good things in substitutions for lighter weight materials, to

meet those café standards and other EPA requirements because you are looking at aluminum which is around \$2,000 per ton today versus ferrous scrap at about \$300 to \$350 a ton. On a per unit basis, this has to be good news for scrap processors because they've seen a lot of the nonferrous being stripped out of the cars before it gets to the shredders. That's been a trend for the last 10 years or so and I think it's actually picking up over the past couple of years because people recognize the value.

"The steel industry and steel producers are trying to gain market share in the automotive sector by introducing lighter weight, high-strength steel alloys that compete favorably on a cost per pound basis with materials like aluminum. Any time there is a change in the recycling stream in terms of what commodities are coming through our industry has to adjust.

"It used to be that plastic in shredder fluff couldn't be recycled, but in 2013 the EPA's regulatory interpretation allowed the scrap industry to start processing the plastic in shredder residue and that's one of the areas that has a lot of room to grow." "Carbon fiber may present bigger problems for auto recyclers due to recyclability issues," said Pickard.

Many plastic components can weigh 50 percent less than similar components made from other materials. That's one reason why today's average light vehicle contains 332 pounds of plastics and composites, 8.3 percent by weight.

Carbon fiber may be visiting the scrap yard, but not likely in the immediate future. The new 787 Boeing Dreamliner, for example, is made of 50 percent carbon fiber. Germany's BMW has been using carbon fiber in some of its cars for more than 10 years, and next year, plans to begin selling its carbon fiber-bodied i3 and i8 models. Only a handful of other cars contain carbon fiber at this point, including the BMW M6, the Audi R8, the Chevrolet Corvette ZR1 and the Ford GT.

Ten years ago, carbon fiber cost about \$150 a pound. Today, it's about \$10 a pound. Industry analysts say that for carbon fiber to find its way into more than high-end cars and aircraft, the price will need to come down to a point below \$5 per pound, even to compete with steel which costs less than a dollar a pound. Carbon fiber is also difficult to recycle. Boeing and BMW Group recently announced a partnership to develop less expensive production methods and focus on carbon fiber recycling both during production and at end of life.

For auto recyclers, receiving lighter vehicles with greater quantities of more valuable nonferrous metals may be a case of less is more in terms of profitability.

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INTERNATIONAL

Weltec builds biogas plants in Greece

German biogas plant manufacturer Weltec Biopower has built 7 stainless-steel biogas plants with a total capacity of 2.75 MW that Weltec has set up in Greece.

Currently, Weltec Biopower is planning and rolling out four additional biogas projects together with its distribution partner Tector Machinery S.A. The order pipeline contains two 500 kW plants, one 300 kW plant, one 250 kW plant and a 250 kW-CHP project in Greece.

One of the 500 kW plants is located in Ptolemaida in the region of West Macedonia. The scope comprises a digester with a capacity of 4,438 m³, several mixers and pumps for three existing slurry stores, a macerator and a 500 kW CHP plant. Cattle manure and abattoir waste will be used as substrates.

The project location is in a region that is considered the Greek energy center. No less than 70 percent of the Greek power is generated in this province, though still primarily from brown coal. Nevertheless, the biogas plant has the potential for becoming something like a multiplier of renewable energies in a center of conventional power generation. The plant, which is operated by an entrepreneur who runs his own slaughterhouse, is situated in the immediate vicinity of ignite mining areas and coal power plants.



Weltec Biopower plans and produces complete biogas plants made from stainless steel and distributes them world-wide. Weltec has built more than 300 plants in Europe, the United States and on Cyprus, in China and in Japan.

This contrast is symbolic of the change that the energy sector is undergoing in this EU member state.

Three quarters of the Greek power production still come from coal, oil and gas. Meanwhile, the Greek Ministry of Environment, Energy and Climate Change is pursuing a change which has slowed down a bit due to the economic situation. Nevertheless, Greece's commitment to provide about 20 percent of the gross energy consumption from regenerative sources by 2020 within the scope of the 20-20-20

goals of the EU is still valid. In this context, biomass plants account for a share of 350 MW.

For this purpose, there is plenty of input material for biogas plants – a lot of agricultural waste in Greece remains unused. As in Ptolemaida, livestock husbandry takes place at an industrial scale throughout the country. This is one of the reasons why decentralized energy production methods such as biogas technology are especially suitable for Greece.

Project created for reused EV battery systems

Satsumasendai City and Sumitomo Corporation have agreed to carry out a joint project on the Koshiki Islands to establish an effective use of reused batteries from electric vehicles (EV) as large scale power storage facilities and to promote renewable energy.

For small scale electric power grids on remote islands, an introduction of intermittent weather dependent renewable energy systems on a large scale will damage the balance of electric power supply and demand, and at times even cause power outages. Therefore, renewable energy systems need to be widely extended to remote islands.

In this EV battery systems project, Satsumasendai City and Sumitomo will implement and validate a local government model project that will establish a low cost business model utilizing economically efficient reused EV battery systems which are set up through local government initiatives that puts in place the access infrastructure to tap into renewable energy. By proving the project's economic viability, this model will promote to enforce the access capability for introducing renewable energy on a sustainable basis.

The project will also install solar power systems at two evacuation facilities on the Koshiki Islands that can be used in the case of disasters and other emergencies.

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INTERNATIONAL

EU study shows end-of-waste is a force for good

The introduction of end-of-waste (EoW) for scrap from iron and steel, aluminum and aluminum alloys has had only positive effects on the market and the environment, according to a major new study from the European Commission's Joint Research Centre (JRC). Researchers found that it has not caused the disruption to markets and the dramatic increase in EU scrap exports that some had feared.

Three years ago, Council Regulation 333/2011 established criteria by which this scrap could cease to be regulated as waste in the EU. The JRC study examined the impacts of the regulation on scrap availability, trade flows, prices and administrative requirements, as well as on the environment and human health. Approximately 250 companies provided responses to the industry survey, with a further 15 submissions from industry associations and 25 from competent authorities.

The study found "almost no evidence that end-of-waste has caused any negative impacts," adding: "On the contrary, quite a number of the survey participants, both from industry and competent authorities, highlighted the perceived benefits of the introduction of end-of-waste for metal scrap." These benefits included "creating a simplified regulatory framework" and "offering companies greater flexibility and legal certainty." More than 40 percent of respondents felt that quality on the market had improved for EoW-compliant scrap in particular, notably because of the strict rules on maximum contamination and the wider introduction of quality management systems (QMS).

The study revealed that more than 1,100 scrap companies are already using the EoW criteria across Europe, with uptake most pronounced in Italy due partly to the country's specific legal framework on secondary raw materials that was already in place prior to the

introduction of the criteria. The study also estimates that at least 15 percent of EU scrap steel and 10 percent of EU scrap aluminum is EoW-compliant.

According to survey responses, the main factors motivating scrap companies to pursue compliance have included: gaining a competitive edge; image improvement; reducing paperwork and associated costs; and increasing sales values. Indeed, some companies believed market prices had generally risen, with the perceived price premium for EoW-compliant scrap over non-compliant scrap put at an average of 1.1 percent.

The purpose of EoW criteria is to: promote high-quality recycling of secondary raw materials; ensure a high level of protection to the environment and human health; provide legal certainty for investment decisions and the treatment of waste; reduce administrative burdens associated with complying with waste regulations; and help the functioning of the internal market by harmonizing procedures at a European level.

The JRC report is therefore very important, said BIR's environmental and technical director Ross Bartley, because it underlines how end-of-waste has helped towards achieving these goals without disrupting the market and material flows. "Crucially," he said, "the report shows through government statistics that, contrary to the fears of some, end-of-waste has not increased EU exports of scrap. This has been proved to be an unfounded concern."

Although some respondents to the JRC study suggested the cost of achieving the necessary QMS certification had outweighed the anticipated benefits, Bartley pointed out that QMS implementation should also bring wider company benefits on top of the end-of-waste advantages.

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GLASS

Dayton glass recycling plant celebrates anniversary

Ten years ago, Rumpke Recycling opened a unique facility in Dayton that has been key to keeping more than 190,000 tons of glass out of landfills.

The glass processing center makes it possible for people throughout the region to recycle their glass bottles and jars. There are only a handful of similar sites throughout the country. Glass collected from homes, restaurants, bars and other businesses across Ohio and surrounding states is processed at the E. Monument Avenue facility.

In the first year, 8,400 tons of broken and mixed glass bottles and jars were cleaned and crushed into a finely ground mixture for manufacturing fiberglass insulation. In 2011, Rumpke invested more than \$4 million to upgrade the plant with new technology

and equipment to begin providing clear and amber cullet to bottle manufacturers. Today, the plant processes 48,000 tons of glass annually, with capability to do even more.

"New technology is continuing to be developed to assist in reducing the cost of transportation, contamination and processing," said recycling director Steve Sargent. "Although these challenges remain, Rumpke feels there is a positive future for glass recycling."

Rumpke Recycling's Dayton facility also processes a mixed stream of recyclables including plastic bottles and jugs, aluminum and metal cans, cardboard, paper and cartons. The company employs more than 200 people locally and is a DRG3 Green Certified Business.

Las Vegas bans glass bottles on strip

Clark County commissioners approved an ordinance that will ban open glass bottles on the Las Vegas Strip to cut down on litter and the ability to use the glass as a weapon. There have been nearly four dozen incidents involving bottles being used in a crime since the start of the year, county commissioner Mary Beth Scow said.

Tourists will continue to be able to consume alcoholic beverages while on the strip in a plastic cup.

Anyone caught by police drinking from a glass container will be asked to dispose of the beverage. If a person refuses, police can confiscate the drink and, if necessary, arrest the person on a misdemeanor charge that carries a maximum fine of \$1,000 or up to 6 months in jail.

Opponents include small business owners in the area who sell alcohol. They think this ban could hurt their sales.

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PAPER

AF&PA releases paper reports

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

Containerboard

Containerboard production was 2.6 percent higher compared to September 2014, 3.2 percent higher than October of last year, and 0.9 percent higher year-to-date. The month-over-month average daily production was 0.7 percent lower. The containerboard operating rate for October dropped to 96.9 percent from September's 97.8 percent.

Kraft Paper

Total Kraft paper shipments were 125.2 thousand tons, 1.2 percent lower than September. Bleached Kraft paper shipments decreased from 11.4 thousand tons in September to 8.7 in October, while unbleached Kraft paper shipments increased from 115.3 thousand tons to 116.5. Overall, shipments for the first ten months of 2014 were 3.2 percent lower than the same period last year. Total month-end inventories decreased 15.2 percent compared to September.

Printing-Writing Paper Report

According to the report, total printing-writing paper shipments decreased 7 percent in October compared to October 2013, with total paper inventories decreasing 7 percent compared to September.

•Uncoated free sheet (UFS) paper shipments in October decreased 12 percent compared to October 2013. YTD shipments are down 9 percent in 2014. Imports of UFS increased 17 percent in September and were up 23 percent year-to-date in 2014.

•October coated free sheet (CFS) paper shipments decreased 6 percent compared to 2013. YTD shipments of coated free sheet grades are down three percent. Exports of CFS papers were down 4 percent for the year compared to the first nine months of 2013, with imports increasing two percent for the same period.

Paperboard Report

Total boxboard production decreased 0.8 percent when compared to October 2013 and decreased 4.6 percent from September. Unbleached Kraft Boxboard production increased over the same month last year but decreased compared to September.

Total Solid Bleached Boxboard & Liner production increased when compared to October 2013 but decreased compared to September. The production of Recycled Boxboard decreased compared to October 2013 but increased when compared to September.

WASTE

Maine DEP proposes to revamp solid waste rules

The Maine Department of Environmental Protection (DEP) issued several public notices detailing numerous proposed changes to Maine's solid waste rules. These changes are being proposed largely in response to legislation passed during the past few years. The rulemaking includes multiple regulations in Chapters 400, 401, 403, 405, 410, 418 and 419.

The most significant proposal is DEP's attempt in Chapter 400 to carry out a legislative mandate in P.L. 2013, ch. 458, §1, to incorporate Maine's solid waste management hierarchy into permitting decisions as an approval standard. The solid waste hierarchy establishes a policy to promote waste management efforts in the following order of priority: reduction, reuse, recycling, composting, waste processing that reduces volume and land disposal. Previously, the hierarchy had served only as guidance to Maine's policymakers, and so this change shifts the burden away from the State to applicants to demonstrate that their solid waste facilities are consistent with its mandate.

To implement the hierarchy as a permitting standard, DEP is proposing that the applicant must show that "the

purpose and practices of the solid waste facility are consistent" with the hierarchy. For solid waste disposal facilities, such as incinerators and landfills, this will require applicants to demonstrate that the waste has been reduced, reused, recycled, composted and/or processed "to the maximum extent practicable prior to disposal." Disposal facilities such as incinerators that themselves generate residue that must be disposed will also have to provide evidence of the feasibility of recycling or processing further those waste streams. Finally, other types of facilities higher up in the hierarchy, such as those involved in recycling, will have to show only that the facility will, to the maximum extent practicable, incorporate into its design and operation reduction, reuse, recycling, and other diversion techniques to minimize the amount of waste that must ultimately be disposed.

As proposed, these changes incorporating the hierarchy as an approval standard would apply to all types of solid waste facility licensing, including new licenses, expansions, amendments, and minor revisions.

Additional changes proposed to Chapter 400 would incorporate an exemption from solid waste licensing requirements for "aged, fully-hardened asphalt" by including it in the existing definition of "inert fill," and incorporate an exemption from solid waste licensing requirements for "wood pallets that are not pressure treated or visibly contaminated, and from which fasteners have been removed" by including them in the definition of "wood wastes."

Other proposed changes affect Chapters 401, 401, 403, 405, 410 and 419. Most of the changes are relatively minor, and include correcting citations to other solid waste and hazardous waste rules to reflect other proposed amendments, updating references to the C.F.R. to the most recent revision, correcting formatting and citation for consistency throughout the rules, and reallocating general definitions to Chapter 400.

Republic adds 20 natural gas trucks

Republic Services has added 20 Compressed Natural Gas (CNG) solid waste and recycling trucks to its fleet serving customers throughout the greater Springfield, Missouri area. The CNG trucks replace older diesel-powered trucks.

Republic Services installed a new natural gas fueling station at its Springfield location to support its fleet. One third of the waste and recycling collection trucks serving the Springfield area are now powered by the domestic fuel source.

Republic Services operates a fleet of more than 2,200 CNG vehicles with 38 natural gas fueling stations nationwide.

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WASTE

Progressive Waste adds natural gas powered trucks

Progressive Waste Solutions (PWS) opened a natural gas fueling station in Coquitlam that services the largest fleet of natural gas powered waste and recycling collection vehicles in BC and Canada.

PWS services the cities of Coquitlam and Surrey, and commercial customers with 77 waste and recycling collection trucks powered by compressed natural gas (CNG). The CNG powered trucks deliver distinct environmental benefits to the local communities as they reduce nitrogen oxides and diesel particulate matter by over 90 percent and cut greenhouse gas emissions by 20 to 25 percent when compared to older diesel trucks.

The trucks are powered by technology developed by Cummins Westport of Vancouver and fueled with natural gas from FortisBC.

The CNG powered collection vehicles are part of a corporate initiative announced in Vancouver in May 2013 to convert the company's collection fleet to natural gas powered vehicles from diesel powered trucks. Since announcing the conversion just over a year ago, PWS has added nearly 250 natural gas powered



From L-R Grant Hankins of PWS, Mayor Richard Stewart of Coquitlam, Councillor Brent Asmundson of Coquitlam.

trucks to its waste and recycling collection fleet. The company now has close to 400 natural gas powered vehicles on the road in 11 different markets throughout North America.

PWS typically purchases 300 to 400 trucks per year through the normal replacement of its fleet and is on track to have up to 55 percent of the total number of vehicles it replaces annually in Canada and the U.S. fuelled by CNG. By 2019, PWS expects 18 to 20 percent of its fleet to be powered by natural gas.

A new waste or recycling collection truck powered by natural gas typically costs about 15 percent more than a conventional diesel powered truck. As natural gas costs less than diesel, the company expects a return on this investment within an attractive timeframe.

INDUSTRY PROFILE

A Closer Look

by Donna Currie

iScrap App

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Tom Buechel, owner of Rockaway Recycling and the creator of the iScrap App, said that when he told his dad that he was going to publish the yard's scrap prices online, his dad looked at him "like a three-headed hydra." His dad had the "old school approach: don't tell anyone anything."

But Buechel went forward with his plans. "I found that being upfront and honest with people has more than paid dividends," he said.

Buechel's father founded the scrap yard in 1977, and Buechel worked there from the time he could walk. Years later, his dad told him that he gave Buechel the dirtiest work he could find, so he could learn the business from the ground up.

Apparently the approach worked. In 2007, Buechel bought the business from his father. At that time, there were about 20 employees.

"When the market went down," Buechel said, "'we' became 'me' so I wanted to reinvent what I was doing." Apps were really hot at the time, he said, so that seemed to be a good direction.

"I have a very new-school approach," he said, and using the Internet to build a business made perfect sense to him. He created an app that wasn't just for own his yard – it's an app where scrap companies all over the country can list their company information as well as the prices for the scrap they buy.

Buechel said that it's sort of like the Yellow Pages, as far as finding a local business, but it's not just address and phone number. "I wanted to bring scrap metal to the technological era," he said.

Since 2011, the app has been downloaded over 180,000 times, and the site gets 250,000 to 350,000 visitors each month. "What I was doing was working for me, so I knew it was going to work for them," Buechel said.

A lot of people still think it's crazy to post prices online. "You can catch more scrappers with prices being posted," he said, but if companies don't want to list their own prices, the app shows market prices for a number of scrap categories.

Through the app, customers can email their local recycler to set up a pickup or upload a photo of scrap metal that they want to have identified and priced. There are also photos that show industry-standard types of metal, so people can see what bare bright copper looks like compared to other grades, so they know what they have before they show up to sell the material.

"People know we're here to make money," Buechel said, "We're going to make money, and we're going to help people make more money by separating the material."

Buechel said that when he's talking to people about his app, it helps that he owns his own scrap yard and he knows how well the app works for him. "I've paid off the app for 319 years with customers coming in the door," he said.

Scrap yards, auto wreckers and other businesses can try a free 60-day trial of the service. Buechel said that 80 percent who try it end up signing up for one of the paid levels.

With two different businesses under one umbrella, Buechel said, "Every single day I come here, it's never like the day before." There are 13 people working for the company now, with four involved in the app development. Some days, Buechel is working on the app, some days he's the boss, and some days he puts on his work clothes and does whatever needs to be done in the scrap yard.

While he's extremely proud of the app and the fact that there are scrap yards all over the country using it, he said that his favorite part of the job is talking to the customers.

Sometimes a customer will bring in something unusual, and he'll ask, "What is it? Where did you get that?" One customer brought in an antique cash register that Buechel rescued to sit on a shelf in his office. Another customer brought in a 6.5' tall bronze statue. "She is now in Florida in the middle of my dad's back yard," he said.

Over the next five years, Buechel said that he expects that his scrap business will continue to grow, and the app will evolve. He anticipates hitting 1 million downloads in 5 years, and he anticipates that it will become even more interactive, with peddlers adding their own input as well as receiving information.

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METALS

Sims Metal Management fined \$2.4 million for violations

The U.S. EPA and the U.S. Department of Justice have fined Sims Metal Management \$189,500 for polluting San Francisco Bay with scrap metal debris in violation of the federal Clean Water Act. Since at least the early 1990s, Sims operated a conveyor belt without adequate pollution controls to prevent materials from falling off the conveyor and into the Bay.

Sims processes and exports more than 300,000 tons of scrap metals from over 200,000 recycled vehicles and other equipment each year to China and other global destinations out of its Port of Redwood City facility. During a stormwater permit inspection in 2011, EPA discovered evidence of scrap metal pollution into the Bay from the company's conveyor belt. At the time, Sims had no protective covering on the conveyor moving scrap metals from its shredder and onto ships, so the metal dust blew off



Ship being loaded via conveyor belt with scrap metal.

PHOTO COURTESY OF US EPA

the top and fell off the sides of the belt and into the Bay. EPA tested the shoreline near the conveyor and found high levels of toxic metals including

mercury, lead, copper, zinc and polychlorinated biphenyls (PCBs).

In 2011, EPA ordered Sims to clean up the shoreline, enclose its con-

veyor, and make other fixes to prevent future discharges to the Bay. In addition to paying a fine for those violations, the settlement requires Sims to investigate and clean up its pollution in the Bay, which will likely cost the company several hundred thousand dollars. Sims will conduct a sediment study to determine the extent of contamination in the Bay from its conveyor operations. If the study shows that its ship-loading operations polluted the Bay, Sims will have to clean up the contamination.

EPA works to protect and restore the Bay through Clean Water Act enforcement and other programs including the San Francisco Bay Water Quality Improvement Fund. Since 2008, the fund has invested over \$32 million in grants to reduce polluted runoff to the Bay and restore Bay wetlands.

The proposed settlement is subject to final court approval.

Metalico operating results improve; discontinued operations report loss

Metalico, Inc. disclosed third quarter operating income from continuing operations of \$2.1 million, an increase from \$600,000 for the prior year period excluding impairment charges.

Consolidated EBITDA was \$7.6 million before the impact of discontinued operations, compared to \$6.6 million in the third quarter of 2013. Reported operating results exclude lead fabricating segment operations, which

have been classified as discontinued operations pending sale.

Sales increased with record setting ferrous shipments

Net loss from continuing operations was \$2.1 million or \$0.04 per share, principally due to higher interest expense and tax provision. Inclusive of a

\$4.9 million discontinued operations loss, net loss was \$7 million, or \$0.14 per share.

Metalico posted sales of \$129 million from continuing operations for the quarter, a 9 percent increase over \$118 million in the comparable 2013 period.

Record ferrous metal shipments combined with near record nonferrous shipments contributed to increased sales. Ferrous scrap pricing was about 5 percent

higher, partially offset by lower nonferrous selling prices and product mix.

Metalico had previously announced its intent to divest non-core assets and apply proceeds to reduce its debt. The company reported it has made substantial progress toward the sale of its lead fabricating segment and has reclassified its lead business as discontinued operations pending sale as required under applicable accounting standards.

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METALS

Steel imports increase by 13 percent in October

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 4,398,000 net tons (NT) of steel in October, including 3,396,000 NT of finished steel (up 12.8 percent and 14.9 percent, respectively, vs. September final data). Year-to-date (YTD) total and finished steel imports are 36,963,000 and 27,812,000 NT, respectively, up 37 percent and 32 percent respectively, vs. 2013. Finished steel import market share was an estimated 31 percent in October and is estimated at 28 percent YTD.

Key finished steel products with a significant import increase in October compared to September are heavy structural shapes (up 48 percent), plates in coils (up 37 percent), tin plate (up 30 percent), sheets and strip all other metallic coatings (up 30 percent), line pipe

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	OCT 2014	NOV 2014	2014 Annual (est)	2013 Annual	% Change 2014 Annual vs. 2013
SOUTH KOREA	550	386	5,476	3,718	47.3%
CHINA	368	328	3,252	1,898	71.3%
TURKEY	327	174	2,169	1,204	80.1%
JAPAN	237	175	2,122	1,898	11.8%
RUSSIA	119	178	1,440	241	498.1%
TAIWAN	119	102	1,189	1,112	56.1%
GERMANY	92	119	1,194	762	7.4%
All Others	1,585	1,492	16,533	13,997	18.1%
TOTAL	3,396	2,955	33,374	24,829	34.4%

(up 27 percent), reinforcing bars (up 25 percent), hot rolled sheets (up 23 percent) and hot rolled bars (up 17 percent). Major products with significant YTD import increases vs. the same period last year include wire rods (up 87 per-

cent), plates in coils (up 86 percent), cold rolled sheets (up 84 percent), cut lengths plates (up 70 percent), sheets and strip hot dipped galvanized (up 57 percent), heavy structural shapes (up 53 percent), hot rolled sheets (up 43 per-

cent), sheets and strip all other metallic coatings (up 42 percent), mechanical tubing (up 31 percent), tin plate (up 26 percent), oil country goods (up 20 percent) and reinforcing bars (up 14 percent).
In October, the largest volumes of finished steel imports from offshore were from South Korea (550,000 NT, up 43 percent vs. September final), China (368,000 NT, up 12 percent), Turkey (327,000 NT, up 88 percent) Japan (237,000 NT, up 36 percent) and Russia (119,000 NT, down 33 percent). For 10 months of 2014, the largest offshore suppliers were South Korea (4,563,000 NT, up 44 percent), China (2,710,000 NT, up 70 percent), Turkey (1,807,000 NT, up 67 percent), Japan (1,768,000 NT, up 10 percent) and Russia (1,200,000 NT, up 518 percent).

Novelis leads global effort to increase closed-loop recycling

Novelis published its Fiscal Year 2014 Sustainability Report, which shows the company is making significant investments and strides to advance the circular economy and increase the sustainability of its business, the aluminum industry and its broader value chain. "Adding More Aluminum, Creating Value" details Novelis' efforts to increase its recycling capacity and the recycled content of its products to 80 percent by 2020, which requires less dependence on higher-carbon primary aluminum and more focus on accelerating the use of recycled aluminum.
Novelis' business model, which is built on closed-loop recycling, comes at a time when aluminum demand is high and the industries that Novelis serves – automotive, beverage can and specialty markets – are increasingly calling for lighter weight, low-carbon materials.
Since 2011, Novelis has invested approximately \$2 billion to expand

recycling and production, doubling its recycling capacity to 2.1 million metric tons per year. Novelis recently grew its recycling network when it opened the world's largest aluminum recycling center in Nachterstedt, Germany, which will process up to 400,000 metric tons of aluminum scrap annually.
At the end of Fiscal Year 2014, Novelis achieved 46 percent recycled content of its aluminum inputs, up 16 percentage points from the baseline years of 2007-2009 and is on track to hit 50 percent by the end of the year. This means the company is providing its customers with aluminum sheet with ever-lower embedded carbon which, in turn, reduces its customers' carbon footprints. A core area of focus of the company's efforts is the development of highly recyclable alloy compositions.
Novelis works closely with its customers, not simply as a supplier of aluminum flat-rolled products, but also as a

technical partner and catalyst for innovation, which was evident in the development of evercan™ for the beverage industry and in new automotive applications that enhance performance while reducing CO2 emissions.
A key component of Novelis' transformation is an expansion of its ability to serve the automotive industry, the fastest-growing market for its products, as automakers increasingly turn to lightweight vehicles that are more fuel-efficient with fewer emissions. Novelis invested \$550 million to triple its automotive sheet capacity to serve growing demand and recently opened China's first plant dedicated to the production of

advanced heat-treated aluminum automotive sheet. Novelis works with its automotive customers to implement closed-loop manufacturing processes, taking back production scrap from automakers then re-melting it, casting it and rolling it again.
Novelis was recognized earlier this year by the World Wildlife Fund (WWF), which accepted Novelis to join its prestigious Climate Savers Program. Novelis is the first and only metals company to be part of this program, an initiative of WWF to encourage companies to reduce their operational carbon footprint and act as agents of change within their sphere of influence.

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AR Scrap Metals MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$220.00	\$220.00	\$270.00	\$310.00	\$345.00
#1 Bundles	per gross ton	220.00	220.00	243.00	300.00	310.00
Plate and Structural	per gross ton	218.00	230.00	260.00	307.00	335.00
#1 & 2 Mixed Steel	per gross ton	218.00	221.00	260.00	285.00	307.00
Shredder Bundles (tin)	per gross ton	175.00	178.00	195.00	205.00	225.00
Crushed Auto Bodies	per gross ton	175.00	178.00	195.00	205.00	225.00
Steel Turnings	per gross ton	145.00	138.00	145.00	165.00	229.00
#1 Copper	per pound	2.64	2.59	2.65	2.50	2.70
#2 Copper	per pound	2.57	2.48	2.53	2.39	2.56
Aluminum Cans	per pound	.70	.65	.75	.75	.80
Auto Radiators	per pound	1.69	1.69	1.90	1.85	1.84
Aluminum Core Radiators	per pound	.61	.65	.70	.68	.62
Heater Cores	per pound	1.20	1.26	1.28	1.50	1.60
Stainless Steel	per pound	.53	.54	.58	.50	.65

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

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AUTOMOTIVE

Insurance Auto Auctions expands in Tulsa and Des Moines areas

Insurance Auto Auctions, Inc. (IAA), a business unit of KAR Auction Services, and a live and live-online salvage auto auction company, is expanding two branches in Tulsa, Oklahoma and in Des Moines, Iowa.

Both locations add to IAA's capacity to service customers in key markets and will provide buyers and sellers with greater convenience and access to increased inventory.

IAA's Tulsa facility will now utilize 24 acres with additional expansion opportunities. There is a fully-functioning auction facility that includes a 10,000 sq.ft. building and recycled asphalt was used for the top surface of the outside vehicle storage area in keeping with IAA's environmentally responsible culture.

The Des Moines branch, located in nearby Waukee, Iowa, will now occupy a 24 acre site.

Salvaging Millions

by Ron Sturgeon
Autosalvageconsultant.com

Tools for success – an ongoing series

Be a leader – Not a boss

The first article of this series listed several tactics that will make you more successful. The rest of the series will take a closer look at each of them.

How do you see yourself at work? Are you a boss or a leader? Think about how your employees see you. Do they see you as a boss or a leader? Do they see the other managers on your team as bosses or leaders? The difference may sound like rhetoric, but it's real.

Without leadership, you won't get peak performance from your people. You won't get close to the results you could.

Two things made me a leader and not a boss. One was hunger. We all have about the same natural ability. The real question is how much desire we have. Desire is what gives one person the persistence to stay at it until he or she reaches a difficult goal.

You're a leader because the people around you know you have that level of desire. You want to win, and you want the people you lead to play on a winning team.

When I was growing my salvage yards, I used to get a question that tickled me – "Ron, how can you hire 100 employees? I can't find six that are worth a crap."

Whenever I hear that question, I always wonder whether the real source of the problem is the employer. As owners, after all, we create the work environment at the business. Employees can like working for us or not.

Of course, money is a big part of how they feel. However, getting happy, productive employees

is about more than the right paycheck. Employees like to work for a growing, successful company. Do you and your management team project that image? Would a person who showed up for a job interview at your yard see the signs of growth and success?

The second thing that made me a leader was a willingness to invest money to improve myself. Leaders are willing to invest in making themselves and their team members better. Are you investing time to read books and magazine articles about leadership? Have you or your top managers gone to any training on effective team building, leading teams and effective hiring?

The investment in developing leadership skills will help you go from boss to leader. You and your team should be going to a seminar on these topics once a quarter. Expect to pay between \$100 and \$200 per person, a little less if you send more people.

I have always been a great admirer of Dave Thomas, the founder of Wendy's. He grew from one restaurant to two and then to many because he had so many people who wanted to come work for him at his new restaurant. They could have found a boss anywhere. What they wanted was to be part of creating a successful business and to work for an outstanding leader.

My advice: Be hungry for success. Project that hunger and the success you are building. Choose to be a leader, not a boss. Do these three things for long enough, and talent will come to find you.

Hyundai offers hydrogen fuel cell vehicles to Canadians

Hyundai Auto Canada Corp. will be the first automotive company to make hydrogen fuel cell electric vehicles available to the Canadian public. The Hyundai Tucson Fuel Cell Electric Vehicle (FCEV) will be available to Canadians on a three year lease beginning in early 2015 in the Vancouver area.

Don Romano, president and CEO of Hyundai Auto Canada Corp., said, "The challenge facing this technology has always been characterized by a chicken-and-egg scenario, where car companies won't bring fuel cell vehicles to market without an infrastructure and there is no need for a refueling industry without customers. It's time to move beyond simply talking about the opportunity. Hyundai was the first to mass-produce fuel cell electric vehicles and will be the first to bring them to Canadian customers. We're planting the seed for a new segment of the industry."

The Hyundai Tucson FCEV stores hydrogen gas and draws an inflow of air to the fuel cell stack. There is no combustion of hydrogen and the stack has no moving parts. The electrochemical process of combining oxygen and hydrogen in the fuel cell stack creates electricity to power the vehicle's electric motor and charge an onboard battery. The only by-product of the process is pure water vapor, resulting in zero greenhouse-gas emissions.

The Hyundai Tucson FCEV takes less than 5 minutes to refuel and has an

estimated range of 265 miles; both are comparable to the existing gasoline-powered Tucson and eliminate the range anxiety or recharge-time compromises of battery electric vehicles. The Tucson FCEV has also undergone extensive crash, fire and leak testing. Further, cold weather has proven to have minimal effects to the Tucson FCEV driving range when compared to battery electric vehicles.

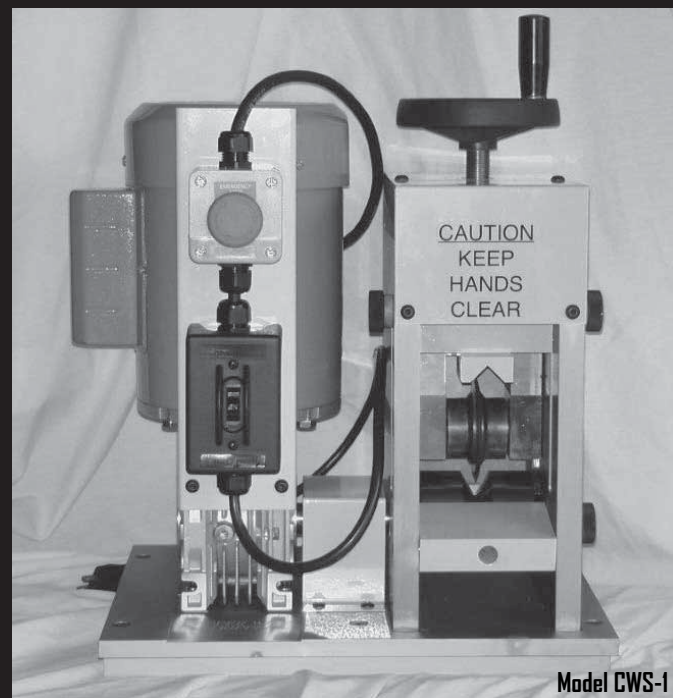
To introduce the new Tucson FCEV to the Canadian market, a select group of Canadians will have the exclusive opportunity to lease the vehicle at \$599 per month over a 3 year term. The lease includes maintenance and unlimited refueling.

In addition, Tucson FCEV owners will enjoy an "At Your Service" valet program. Based on the company's full-size Equus premium sedan program launched in 2010, should a Tucson FCEV require any service, a Hyundai dealer will pick up the vehicle and provide a loaner hybrid vehicle, then return it after service is complete to their home or business, at no charge.

Hyundai is also working with the Canadian government at all levels and the fuel industry to make fuel cell vehicles not only more affordable, but accessible by realizing a vision for a nation-wide infrastructure of hydrogen refueling stations.

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BUSINESS BRIEFS

Zimmer America forms new recycling company

■ Zimmer America formed a new company for recycling solutions – Zimmer America Recycling Solutions. The new company was formed in the first half of 2014 to meet the growing demand for state-of-the-art recycling machinery, which is built to meet the highest of quality standards. Zimmer America Recycling Solutions is located in South Carolina.

Zimmer America Recycling Solutions is a technology solutions provider for MRFs, PRFs, PET bottle washing and sorting, and extrusion machinery.

Atlas Copco hires new national rental manager

■ Atlas Copco Construction Equipment has hired Frank Lang as its business development manager of national rental accounts. Lang helps expand Atlas Copco's rental support network and will be responsible for developing relationships and sharing his product expertise with national rental companies.

Lang has more than 34 years of experience in the construction rental industry. Before joining Atlas Copco, he was the director of national accounts at H&E Equipment Services, where he worked to develop rental programs for contractors. Prior to that, Lang worked for a hydraulic attachment manufacturer and as a general manager for the rental division of a Komatsu dealer.

Lang is part of Atlas Copco's strategy to expand its rental division.

OBC Baling new distributor for IPS and American Baler

■ OBC Baling Equipment has added two new baler brands to their product offering. Both IPS and American Baler have selected OBC to be their exclusive dealer for Ohio and portions of other surrounding Midwest states. This latest expansion allows OBC to serve customers with an even more precise match of equipment to need.

OBC Baling Equipment now sells, services and supports IPS, American Baler, Harris and Max-Pak Balers, along with a broad offering of other recycling-related equipment. OBC Used Equipment, and OBC Rigging, two other companies under the OBC brand, further enhance customer options by offering quality pre-owned inventory, and installation, reconditioning and relining services for existing equipment.

Korney named regional sales manager for Harris

■ Ken Korney has joined Harris Waste Management Group, Inc., where he will serve as a regional sales manager.

In his new position, Korney will be responsible for leading all Harris sales efforts in support of product and market development for Harris' non-ferrous equipment and Harris distributors. Korney's sales region includes Eastern Kentucky, Ohio, Western Pennsylvania, Western New York, Michigan, Indiana, Northern Illinois, Wisconsin, Iowa, Minnesota, North Dakota, South Dakota and Nebraska.

Metalico names Cary Grossman to its board

■ Metalico, Inc. reported that Cary M. Grossman, a veteran scrap metal recycling executive, has been elected to the company's board of directors.

Grossman is the president of Shoreline Capital Advisors, Inc., an investment and merchant banking firm he co-founded in 2011. His addition will bring the board's membership to its currently authorized maximum of six directors. He has also been appointed to the board's audit committee.

Grossman was the chief financial officer of Blaze Recycling & Metals, LLC, a scrap metal recycler with nine facilities in Georgia, Florida and Alabama, from 2007 through 2009 and a full-time consultant to Blaze thereafter through February 2011. More recently he served as Blaze's interim chief executive officer. Prior to 2007 he worked in a variety of senior executive positions with various public and private concerns in several industries.

U.S. Endowment for Forestry adds to board

■ The U.S. Endowment for Forestry and Communities welcomed the addition of two new members to its board of directors – Andrea Tuttle of Arcata, California, and John T. Cooper, Jr. of College Station, Texas.

In addition, two members were re-elected for three-year terms – John Kulhavi of White Lake, Michigan, and Jim Hoolihan of Grand Rapids, Minnesota. Officers being re-elected to terms for 2015 are Tamar Datan, vice chair of Leesburg, Virginia; and Jon Voigtman, treasurer of Summit, New Jersey. John Weaver of Augusta, Georgia continues as the board chairman for the second year of a two year term.

Tuttle, who holds a Ph.D. from the University of California, Berkeley, is an independent consultant. Tuttle currently serves as chair of the board of directors of the Pacific Forest Trust and consults in South East Asia and China on sustainable forest management and climate change.

Cooper holds a Ph.D. from the University of North Carolina and is an associate professor of the Practice, Department of Landscape Architecture and Urban Planning, and director of the Texas Target Communities Program, Texas A&M University. He is a former program director with MDC, Inc. in Durham, North Carolina, and past planning specialist with the North Carolina Division of Emergency Management.

Alternate meanings for 'common' words:
Giraffiti (n): Vandalism spray-painted very, very high.
Coffee (n): The person upon whom one coughs.
Abdicate (v): To give up all hope of ever having a flat stomach.
Caterpallor (n): The color you turn after finding half a worm in the fruit you're eating.
Willy-nilly (adj): Impotent.

Tarkett partners to expand its recycling program

■ Tarkett, a flooring and sports surface solutions company, has partnered with E.J. Welch Company, Inc. as their newest consolidator for their ReStart™ Recycling and Reclamation Program. E.J. Welch will serve Illinois, Northwest Indiana, Southeast Wisconsin and Eastern Missouri, helping to make it easier for contractors and other members of a design/build team to return installation waste material, ultimately lessening the overall impact on the environment.

E.J. Welch joins a growing group of North American distributors who have shown their commitment to recycling and reuse by becoming a consolidator and helping to facilitate the ReStart program.

Tarkett focuses on end of use rather than end of life and aims to transform waste into resources for new products of equal or better quality. The company's ReStart Recycling and Reclamation Program allows commercial flooring job scrap (rubber, vinyl and linoleum tile and sheet, wall base, floor finishing accessories and tread-cuttings) to be collected and returned to Tarkett to be repurposed or recycled.

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BUSINESS BRIEFS

Bill Rumpke III named operations manager

■ Bill Rumpke III has been named operations manager for Rumpke Waste & Recycling, representing the fourth generation of Rumpke family members taking leadership in the company.

In his new position, Bill Rumpke will oversee daily operations of waste, recycling and portable restroom services in Louisville and Southern Indiana.

Previously, Bill Rumpke worked in Columbus, Ohio, where he managed residential services for 300,000 households including the company's largest municipal contract. His responsibilities included recruitment, training and evaluation of 120 drivers and supervisors. He has also worked as a laborer, driver, route auditor and supervisor.

Rumpke attended Columbia University, where he earned a bachelor's degree in political science and economics while playing Division I baseball.

Weitsman completes asset acquisition in New York

■ Weitsman Recycling has acquired the assets of Murtagh Scrap Handling, located in Rome, New York. The yard is in a prime location, between Syracuse and Utica in the heart of Oneida County. The deal is expected to be finalized in January and will open as Ben Weitsman of Rome at that time. Weitsman has big plans for the new location, calling it his most strategic location acquired to date.

Weitsman has unveiled a three million dollar plan, which will begin immediately, to renovate the yard including new buildings, new equipment, paving the entire facility, new fencing and landscaping. Ben Weitsman of Rome will be open seven days a week and will expand its hours as a convenience to its customers. Existing employees will be retained and an additional 10 jobs will be created once the retail feeder yard formally opens under new ownership. The acquisition comes as Upstate Shredding – Weitsman Recycling gets ready to open its second shredder in New Castle, Pennsylvania in early 2015.

Murtagh Scrap Handling is a privately held company that was established in 1986 by the Murtagh family. After 28 years of family ownership, Murtagh feels Weitsman is the best fit for acquisition given Weitsman's reputation as a good neighbor in the locations in which they operate.

BACE to relocate headquarters

■ BACE, a manufacturer of balers and compactors for the recycling and waste-disposal industries, has acquired property into which it will move its corporate headquarters. In addition to corporate offices, the building includes 90,000 sq.ft. of manufacturing space. The new headquarters will be located at 322 West 32nd Street in Charlotte, North Carolina. The move should be completed by March of 2015.

Weitsman hires James M. Land as new COO/CSO

■ Weitsman Recycling has hired a long time veteran in the fields of operations and security. James M. Land has been hired as the chief operations officer (COO)/chief security officer (CSO) and will spearhead operational improvements and security protocol as the company continues to aggressively expand throughout the Northeast. The hire comes on the heels of ten new yards that Weitsman has built or acquired over the last few years.

As COO and CSO, Land will be responsible for all aspects of the company's operations and security. In these roles, he will serve as a member of the corporate management team contributing to the development and implementation of organizational strategies, policies and practices to strengthen organizational excellence and ensure that industry standards are exceeded. He will be responsible for the development, implementation and management of the organization's corporate security vision, strategy and programs as well as the security of physical assets and information in both physical and digital form. He will also be directly involved in all aspects of the operation of all facilities providing oversight and leadership, ensuring that the highest levels of ethical conduct and professional standards are maintained by all company personnel at all times.

Prior to joining Upstate Shredding – Weitsman Recycling, Land served the people of the State of New York as a sworn member of the New York State Police for over 27 years. During his law enforcement career he rose through the ranks of trooper, investigator, sergeant, sergeant – station commander, lieutenant and captain where he gained vast investigative experience in all aspects of law enforcement, as well as, vast supervisory and leadership experience at all levels of management and command. Land was decorated with three Superintendent Commendation Awards during his law enforcement career with the New York State Police.

Complete Recycling expands to the East

■ Complete Recycling, a recycling firm based in San Diego, has opened its first office in the eastern United States.

Industry veteran, Kahley Malloy, will serve as the managing director of Complete Recycling's new regional office, located in Alabama. In his new role, Malloy will be responsible for business development, vendor management and client satisfaction.

Malloy has spent over 20 years providing clients with resource management and sustainability consulting, landfill-diversion program design, and data reporting services. Prior to joining Complete Recycling, he owned a landfill diversion and spend-management consultancy, worked for Oakleaf Waste Management, and was part of Schneider Electric's Sustainability Services Group.

Timken board elects Maria A. Crowe as director

■ The Timken Company's board of directors has elected Maria A. Crowe a director of the company for a term that expires at its May 2015 annual meeting. The election brings The Timken Company board to 11 directors.

Crowe currently serves as president of manufacturing operations for Eli Lilly and Company, a \$23 billion global healthcare leader based in Indianapolis.

Crowe joined Lilly in 1982 and since 2012 has led Lilly's global manufacturing network comprised of more than 20 sites on 5 continents. She also is responsible for Lilly's contract manufacturing organization. Previously, Crowe was senior vice president for global drug product manufacturing. She also served as vice president for drug product manufacturing in the U.S. and Latin America; was general manager of the Kinsale, Ireland, plant; served as general manager of Lilly del Caribe in Puerto Rico, and was plant manager of the Elanco manufacturing plant in Tippecanoe, Indiana.

Genesis Attachments names Ganier as manager

■ Genesis Attachments has named Mike Ganier as its Southeast regional manager. Covering North Carolina, South Carolina, Georgia, Mississippi, Alabama and Florida, Mike brings 15 years of attachment sales experience and more than a decade of scrap and recycling industry specialization to Genesis.

Navistar names new leadership team

■ Navistar, Inc. is restructuring its senior leadership team by giving three executives additional responsibilities. The company said that Jack Allen, the company's executive vice president and chief operating officer since April 2013, is retiring after more than 33 years of service.

Bill Kozek, president of North America truck and parts, has been promoted to president, truck and parts, and is adding global/export truck and parts sales, product planning and Navistar Defense to his current responsibilities. Persio Lisboa, senior vice president and chief procurement officer, has been promoted to president, operations, and is now responsible for product development, manufacturing, and global businesses. Walter Borst, executive vice president and chief financial officer, is adding business development, mergers and acquisitions and corporate strategic planning responsibilities.

Heritage-Crystal Clean acquires FCC Environmental

■ Hazardous waste management and used-oil re-refining company Heritage-Crystal Clean, Inc., Elgin, Illinois, has acquired FCC Environmental from Spain's Fomento de Construcciones y Contratas S.A. for \$90 million.

FCC Environmental, a provider of environmental and used-oil collection services, operates 34 facilities in the U.S. and generated sales of approximately \$160 million during its 2013 fiscal year.

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The PET recycling facility has a capacity of 7,200,000 lbs. input per month. The sorting line consists of positive TITech optical sorters and Bollegraaf conveyors. Grinding systems have Herbold granulators. The plant has clear and colored caustic wash lines with dry and wet cleaning stations.

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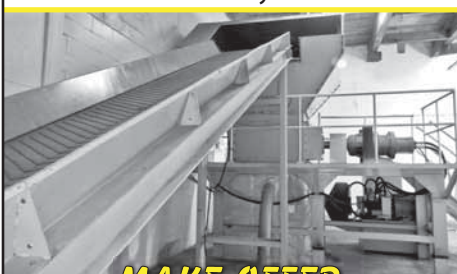
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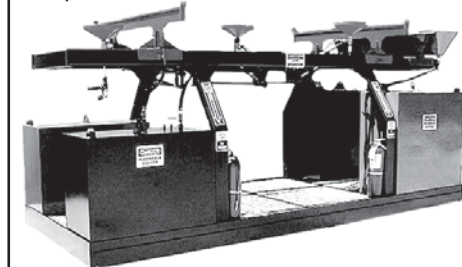
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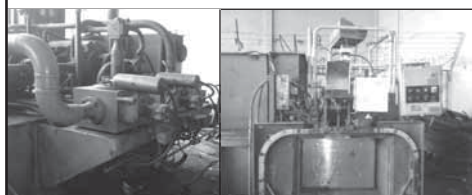
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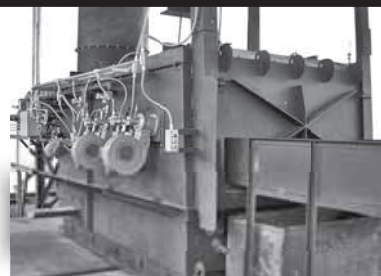
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What is the setup time?	NONE	_____	_____
Do you use weather-tight electrical connections for automation controls and trailer lights?	YES	Yes / No	Yes / No
Does the crusher have fenders on the front of the machine?	YES	Yes / No	Yes / No
Are the guide frames tied at the top?	YES	Yes / No	Yes / No
How big is your fuel tank?	400 GALLONS	_____ Gallons	_____ Gallons
Do you have wear guides on the main cylinder pistons and glands?	YES	Yes / No	Yes / No

REMOTE CONTROL

How quickly can you get me a replacement automation system?	NEXT DAY	_____	_____
How long does it take to replace the receiver on the machine?	10 Minutes	_____ Minutes	_____ Minutes
Can I start and stop the engine with the remote?	YES	Yes / No	Yes / No
Does the remote have individual up and down cylinder control buttons?	YES	Yes / No	Yes / No
Do you use rocker switches to limit the up stroke of the cylinders?	YES	Yes / No	Yes / No

OPTIONS

High Speed	YES	Yes / No	Yes / No
Maximum oil flow from your cylinders?	250 gpm	_____ gpm	_____ gpm
What is the maximum port size of the cylinders?	2.5"	_____ "	_____ "
Can I get an auxiliary fuel pump to fill my loader?	YES	Yes / No	Yes / No

SAFETY & HAZARDS

Do the safety locks engage from the ground, without climbing on the machine or into the chamber?	YES	Yes / No	Yes / No
If one side of the lid is raised and the other side is down, will it damage the crusher?	NO	Yes / No	Yes / No
Does your waste oil recovery tank have sludge traps and large clean-out access panels?	YES	Yes / No	Yes / No
Do you have lockable cabinets for the:			
Engine controls	YES	Yes / No	Yes / No
Remote control	YES	Yes / No	Yes / No
Valves	YES	Yes / No	Yes / No
Auxiliary fuel port	YES	Yes / No	Yes / No

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SECTION B

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JANUARY 2015

Low cost loans available for recycling infrastructure

by MARK HENRICKS

mhenricks@americanrecycler.com

A new investment fund is making \$100 million in zero interest and below market loans for recycling infrastructure. The Closed Loop Fund was created by a group of companies that are seeking to increase the amount of recycled materials available to support sustainable business activities.

Loans to municipalities will be interest free, while loans to private enterprises will require payment of interest at below market rates, according to Bridget Croke, who heads up partner relationships for the fund. Loans will be available for purposes including purchasing carts for curbside recycling programs, building and upgrading municipal recycling facilities and acquiring and installing equipment such as anaerobic digesters.

The Closed Loop Fund was created by co-founders Ron Gronen, a former New York city recycling official, and Rob Kaplan, director of product sustainability at Walmart. A group of consumer products and retail companies including Walmart, Coca-Cola, Procter & Gamble and Unilever have invested in the fund. Croke said the companies expressed a need to increase the quantity of recycled materials available to serve as input for sustainable business processes.

"It was clear there was a gap in the amount of materials being recycled, and that infrastructure was still very much a barrier to getting the recycling rates we want to see across the country," Croke said. The idea behind the fund was to make affordable capital available to cities and partners seeking to improve and expand recycling infrastructure. That, according to the plan, will help increase recycling rates and make it easier for companies like Walmart and the other investors to get recycled material to fuel sustainable strategies.

The total amount that will be loaned is \$100 million. Typical loans from the fund will be in the range of \$3 million to \$5 million each. Many infrastructure projects will also have additional investors contributing funds as partners to the Closed Loop Fund, Croke said.

Interested borrowers can apply by filling out a questionnaire at the Closed Loop Fund website, www.closedloopfund.com, and then sending additional documentation. Candidate borrowers identified through an initial vetting process will receive additional questions to answer. The first successful borrowers will be approved in early 2015, Croke said.

The fund has created a detailed scorecard to target the kinds of funding opportunities that its investors want to help. Among the criteria are how much tonnage the infrastructure expansion is likely to remove from landfills, and whether applicants can measure that impact in a detailed and consistent way. Lenders will also be examining whether the borrower can expertly build and operate the proposed infrastructure improvement. "We will be there to support them, but want them to be able to execute it," Croke said.

The advisors will also assess borrowers' ability to pay back the loans. Funds for repayment will be generated from sources such as reduced tipping fees and sale of recycled materials. Both public and private borrowers will be scrutinized for likelihood of repayment. "Even though we're not looking to make a lot on interest, we're looking to get the principal back," Croke said.

A final and very important criterion is whether the initiative is something that other communities can use as a model for improving their own infrastructure. "We're looking to fund projects in lots of communities that are replicable," Croke said.

Some types of projects are unlikely to make it past the initial hurdle. For instance, the fund is not designed to



Loans will be available to municipalities and private entities for building and upgrading municipal recycling facilities and installing new equipment such as anaerobic digesters. Municipalities will not be required to pay interest on the loan.

OPERATIONSHOOTING88 | DREAMTIME

fund marketing or incentive initiatives designed to increase recycling rates. Croke said that is because infrastructure loans will create assets that can be used as collateral to keep the fund from losing money if borrowers fail to repay loans.

The Closed Loop Fund will also not generally fund startup companies or new technologies. Infrastructure improve-

ments using proven technology, however, could be funded. For instance, a MRF that wants to install optical sorters could be a viable candidate, Croke said.

Loan applicants that do business with or supply recycled materials to the large corporations that are investors in the fund will not be favored in the

See CLOSED LOOP, Page 7

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A Letter from the Editor

Readers,

Everyone has had their share of computer woes every now and again. For most, we end up opening an email attachment that we shouldn't have, and then we're forced to rely on a tech-savvy family member to clean up the resulting viruses and adware.

But last November, Sony Pictures employees arrived at the office to find their computer screens displaying a message informing them that they had been hacked by a group called the Guardians of Peace, and that their internal data, including several unreleased movies, had been stolen. That stolen information was leaked to the broader internet public over the next several days.

After that, though, things got more intense. In mid-December, the hackers posted messages threatening 9/11-style attacks on movie theaters that showed Sony's then-forthcoming film, *The Interview*.

The movie pokes fun at North Korea's notorious dictator, Kim Jong-Un. The threats of reprisal against those showing the film supported early theories that North Korea had orchestrated the hack. Those theories were eventually affirmed by the Federal Bureau of Investigation, who concluded that the attack did indeed originate from that country.

Shortly after the threats were made, Sony made the awful decision to capitulate. Rather than proceeding with the debut of the film, Sony canceled the premier and gave in to the hackers' demands.

Folks, there's a reason that the U.S. refuses to negotiate with terrorists (until recently that is – thanks, Obama). We refuse because we don't want them to think that their criminal actions will get them what they want. Like parents who ignore the temper tantrums of their children, we strive to impart the message that bad behavior does not get results. But Sony has gone ahead and made it clear that this type of cyber warfare works. This sets terrible precedent that will only encourage further cybercrimes.

I'm no computer wizard, and I don't know what Sony could have done differently to secure their systems and sensitive data. But the lesson here is that attacks of this nature are going to become the new norm, and that businesses handling sensitive information are going to have to adapt and evolve to deal with these attacks.

And when the attacks do compromise sensitive data, companies better be prepared to just say "No" to the criminals who took it.



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Wilmington compost facility ordered closed

Delaware's Department of Natural Resources' (DNREC) secretary David Small has issued an order to Peninsula Compost Company LLC of Wilmington requiring closure of its recycling facility. The order, signed in October 2014, directs that the company immediately cease accepting any material at the facility and initiate steps to implement an orderly closure in compliance with a closure plan (the Composting Approval for Closure Activities attached to the secretary's order).

In addition to immediately ceasing accepting any waste into the facility, the order requires all active composting of existing material onsite to be completed by January 16, 2015. All compost and related waste must be removed from the facility by March 31, 2015.

"Peninsula Compost Company has placed an undue burden on the quality of life of residents in the City of Wilmington, parts of the City of New Castle and part of New Castle County – particularly those living in close proximity to the facility due to frequent uncontrolled odors," said secretary Small. "The company has been unable to maintain compliance with DNREC's Beneficial Use Determination permit."

The Peninsula Compost Company began operating the Wilmington Organic Recycling Center in December 2009 with approval from DNREC via a Beneficial Use Determination (BUD) permit. The BUD approved the company to accept and process hatchery waste, food waste, yard waste, wood waste, and animal bedding, in order to pro-



Peninsula Compost Company was approved to accept various organic wastes for composting, but was ordered to close after failing to mitigate nuisances.

FREDERICK SNEDDON | DREAMTIME

duce and market quality compost products at its facility on Christiana Avenue in Wilmington. The company was processing about 115,000 tons of waste per year.

Since operations began at the facility, DNREC has coordinated with Peninsula Compost Company to improve operations and compliance. However, over time, the company has been unable to maintain compliance and minimize odors. Some of the issues at the facility related to violations and odors include:

- Equipment has been non-operational, sometimes for extended periods of time.
- Time needed to produce finished compost takes longer than originally planned.
- Waste or finished compost have been stored onsite above approved quantities.
- Non-compostable residuals from the screening process and trash have been stored onsite above approved levels.

• Trench drains and wear of the paved composting pad have allowed for standing leachate onsite.

• Poor maintenance of stormwater ponds and aeration systems.

• The mixture of food waste with yard waste/wood waste has been at a ratio that is too high.

• Feedstocks and composting windrows have been contaminated with non-compostable wastes.

• Occurrences of fires at the facility.

• Failure to develop markets to meet production demands.

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The secretary's order with attached Composting Approval for Closure Activities can be found on DNREC's website.

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MAR	PAPER/PLASTICS	02/16
APR	METALS	03/18
MAY	AUTOMOTIVE	04/17

APWA reveals new public fleet credentialing

The American Public Works Association (APWA) stated that four public works fleet professionals recently earned the Certified Public Fleet Professional (CPFP) credential. The CPFP credential is for the seasoned, government public fleet manager, and for those professionals who supervise, manage, oversee or administer fleet services within or for a public fleet entity. The APWA CPFP program has certified 100 Certified Public Fleet Professionals in North America.

APWA executive director, Peter B. King, said, "The purpose of APWA's Public Fleet Professional Certification is to promote excellence in fleet management by advancing the knowledge and practice of public fleet professionals to benefit communities through quality fleet services."

More charged in DEP crackdown on illegal dumping

The New Jersey Department of Environmental Protection's (DEP) initiative to crack down on illegal dumping in state parks and recreational lands has yielded eight more enforcement actions, all for disposing of debris and other materials in state-owned natural areas.

The DEP's "Don't Waste Our Open Space" campaign was launched in late March. Investigations of illegal dump sites on state properties by Division of Fish & Wildlife's Conservation Officers, State Park Police and DEP's Compliance & Enforcement personnel has resulted so far in 28 arrests or enforcement actions.

The program is a coordinated effort of a host of DEP agencies, including Parks, Fish & Wildlife, Solid Waste, Water Resources, State Forestry Services and the Natural Lands Trust. All activities of this new effort are posted on www.stopdumping.nj.gov, a website that serves as a hub for the entire program.

"The results of this program should continue to serve as warning for illegal dumpers that their actions will not be tolerated," said DEP commissioner Bob Martin. "Through our investigations, we are showing that no site is too remote to be caught and those who have no regard for the environment, wildlife or people who enjoy the outdoors will be prosecuted to the full extent of the law."

Recent enforcement actions for the illegal dumping initiative, all conducted by State Conservation Officers, include:

•Haroldo Recinos-Castillo, of Penns Grove, was charged with illegal dumping in a Wildlife Management Area and illegal solid waste disposal, after a large debris pile – consisting of paint, insulation, concrete, windows, shingles, motor oil and household trash – was discovered this month at D.O.D. Wildlife Management Area in Oldmans Township, Salem County.

DEP's Bureau of Emergency Response cleaned up the hazardous materials. In addition to charges, DEP is seeking restitution for cleanup of the site.

•Luis Pulla, and Alex Gualotuna, both of East Windsor, were charged with illegal dumping and illegal solid waste disposal after two large piles of construction debris were found at Assunpink Wildlife Man-

agement Area in Allentown, Monmouth County, in September.

Both pled guilty to illegal dumping and each were fined \$1,500, plus \$1,000 each in restitution for the cost of the cleanup.

•Robert E. Davis, of New Egypt, was charged with illegal dumping of construction and household debris that was found near the Lake Success section of Colliers Mills Wildlife Management Area in Jackson Township, Ocean County, last month. A court hearing for the charges is still pending.

•Brian K. Rosario, of Egg Harbor Township, was charged with illegal dumping of solid waste, particularly a discovery of pressure treated lumber at Hammonton Creek Wildlife Management Area in Mullica Township, Atlantic County, in July. Rosario pled guilty and paid a \$500 fine.

•Lyndon Long, of Millville, was charged with illegal dumping of construction debris at Makepeace Wildlife Management Area in Hamilton Township, Atlantic County, in July. Long pled guilty to the illegal dumping charges and paid a \$400 fine.

•Clarence Mays III, of Hammonton, was charged with illegal dumping and dumping of solid waste also at Makepeace Wildlife Management Area in connection with construction debris. Mays pled guilty and paid a \$250 fine.

•Christopher J. Daraklis, of Absecon, was charged with illegal dumping of construction debris at Port Republic Wildlife Management Area in Atlantic County in September. Daraklis pled guilty and was fined \$800.

The "Don't Waste Our Open Space" campaign incorporates strict enforcement of illegal dumping practices, while raising awareness of the problem through outreach and education.

Strategically deployed motion-sensor cameras have been set up in select state parks and wildlife management areas to help nab violators.

The DEP is being aggressive in its pursuit of civil and criminal complaints against violators. Penalties for illegal dumping in state parks and in fish and wildlife areas will include criminal fines



When threatening signs failed to do the job, the DEP turned to cameras to find and charge illegal dumpers.

DAVID PARK | DREAMSTIME

of up to \$5,000 per violation and civil penalties of up to \$1,500 per violation. In addition, the state also will seek much stiffer penalties for major violations through the Solid Waste Management Act, which authorizes the DEP and county health departments to initiate civil actions for illegal dumping violations.

Illegal dumping, which includes everything from unlawful disposal of construction debris and old TVs and comput-

ers to the dumping of car parts and tires – and even entire vehicles – has been a growing problem in the state's vast natural holdings in all 21 counties in recent years.

Nearly all of the state's more than 170 publicly owned tracts, including state parks, state forests, wildlife management areas, marinas, and natural lands and preserves, have been impacted by illegal dumping. These lands account for 813,000 acres of state-preserved open space.

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EQUIPMENT SPOTLIGHT

Optical Sorters

by **MARY M. COX**

maryc@americanrecycler.com

Optical sorting technology, also called digital sorting, is an automated process that sorts materials found in waste and recycling operations. Depending on the type of technology involved, optical sorters can recognize material color, size, shape, structural properties and chemical composition. Compared to manual sorting, oftentimes subjective and inconsistent, optical sorting can help maximize throughput, increase yields and reduce labor costs. An optical sorter compares objects to user-defined accept/reject criteria, which is then used to identify and sort material as required.

A division of the CP Group, MSS designs, engineers, manufactures, installs and services automated optical sorting equipment for the recycling and waste management industries. Applications are available for single-commodity facilities processing plastics, paper, glass, e-scrap, metals, beverage cartons, etc. or commingled recyclables and mixed waste plants for single-stream, dual-stream, municipal solid waste (MSW), refuse derived fuel (RDF), commercial and industrial (C&I), construction and demolition (C&D) and more.

MSS recently introduced two new sensor-based technologies for MRF and MSW applications: Cirrus™ and Metalsort™. “Like all MSS technologies, both accurately sort using advanced identification algorithms and corresponding precise high-pressure air jets,” stated Felix Hottenstein, sales director.

Cirrus utilizes a new high-resolution near-infrared (NIR) and color sensor array providing accurate sorting of different material types. In MRFs, plastics such as PET, HDPE Natural, HDPE Colored, PP and PS are sorted efficient-

ly from 3D container streams. Also, contaminants (non-fiber) are removed from mixed paper and newspaper commodities to provide the highest product purities. In MSW applications, Cirrus is utilized to extract mixed paper and plastic film from mechanically pre-sorted 2D streams and plastic containers from the 3D fraction.

Metalsort is based on induction sensor coils. This all-metal detector for ferrous, nonferrous and stainless steel can be integrated into a processing line as a stand-alone module or as an upgrade to the Cirrus to recover metals from the various streams present in MRF and MSW processing facilities.

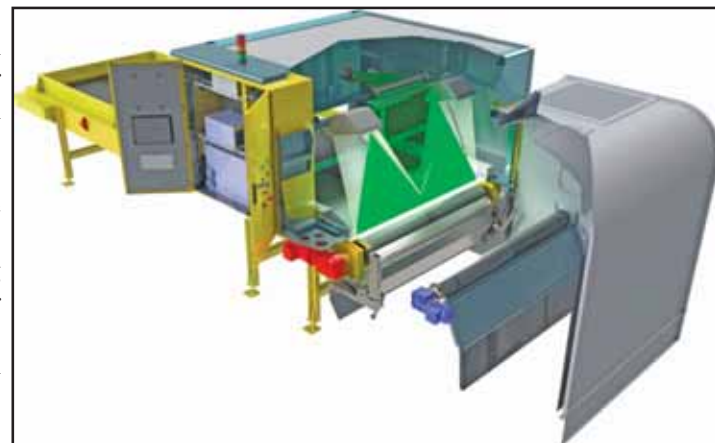
Hottenstein said, “The exact sensor configuration is tailored to each specific processing application. A user-friendly touchscreen interface allows the operator to change sort recipes on the fly with the touch of a button.” All MSS units are offered in various sizes between 32” and 96”.

“Products by Pellenc ST are designed to help recover the most value from material via maximum performance. We can find the right solution in every recycling environment, whether in sorting facilities, recycling facilities, or special markets such as electronic waste and RDF,” explained Mike Roberts, head of sales, Pellenc North America.

Roberts explained, “Using NIR and vision technologies, the Mistral machine is our most sought-after product. It is equipped with the most advanced technology in the optical sorting industry. The Mistral is used in every application in recycling: MSW, MRF, RDF, C&D, industrial, WEEE, PET, film, paper, plastics, and organics. With one machine you can sort it all. The Mistral’s unique focus lightening system and spectrometer are designed to bring back two to four times the amount of infor-

mation to the optical sensors, when compared to other optical sorters on the market. This information advantage provides the optimum in precision, in sorting materials. Over 1,000 machines are installed in over 40 countries and the Mistral has proven its performance and reliability. We build every machine from the ground up.”

On the support side, Roberts noted, “Pellenc does more than just sell a product. We offer technical guidance to maximize the use of the optical sorting machines with each client. Everything is planned, built, and delivered from our home office then followed up by a full installation and implementation service performed at the customer’s site. Pellenc also offers the highest level of sup-



Pellenc ST

differentiate alloys, metals and ores based on their surfaces and elemental composition. The sorting technology involves a dual energy system to determine material density while overcoming the effects of thickness and shape. The process can accommodate material ranging in size from 10 to 200mm.

Miller said, “Mixed metal commodities are facing numerous challenges in today’s market, including the low rate of

See SPOTLIGHT, Page 6



Steinert US

port to clients with a 24/7 direct phone line, remote maintenance – this is where more than 85 percent of issues are resolved – a team of local technicians, local spare parts, and service packages to ensure that our machines always function properly in their environment.”

Steinert has provided complex sorting solutions for more than 125 years. “Using sophisticated magnet and sensor technology, we offer individual equipment, full solutions, parts and service to our customers,” Jason Miller, standard equipment sales manager – North America, stated. The company’s two sorting products include the Steinert XSS T, which uses x-ray transmission technology to recognize different material densities containing halogens and organic components, and the Steinert XSS F, which uses s-ray fluorescence to



MSS, Inc.

Manufacturer List

MSS, Inc.
Felix Hottenstein
615-781-2669
www.magsep.com

National Recovery Technologies
Matthias Erdmannsdoerfer
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OEM Sherbrooke
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EPA highlights benefits of food diversion

U.S. Environmental Protection Agency (EPA) regional administrator Susan Hedman highlighted the environmental benefits of diverting food waste from landfills at the Western Lake Superior Sanitary District's (WLSSD) composting facility.

In 2012, U.S. residents threw away nearly 35 million tons of food. Food waste accounts for about 20 percent of the material in U.S. landfills. Decomposing food in landfills releases methane, a greenhouse gas 20 times more potent than carbon dioxide.

WLSSD turns food scraps and yard waste from homes and businesses into high-quality compost, which can be added to soil to help plants grow. Making compost keeps food waste out of landfills. WLSSD also works with businesses to reduce the amount of food waste generated and encourages any surplus edibles to be donated to local programs to feed the hungry.

WLSSD processes nearly 8,000 tons of organic materials diverted from landfills each year. Nearly 200 businesses and institutions in the Duluth-Hermantown-Cloquet area divert food through feeding programs and to the composting facility. WLSSD also operates food scrap collection sites for area residents and small businesses. Through its composting program, WLSSD produces nearly 2,500 cubic yards of bulk and bagged Garden Green Compost, which is sold directly to the public and to regional garden centers.

A third of the food grown, harvested and purchased in the United States is thrown away, which costs the average family of four \$1,600 every year. In addition, 25 percent of the nation's freshwater supplies go toward growing food that is never eaten.

Global Green helps divert food scraps

Global Green has joined forces with the City of Albany, California and members of its Coalition for Resource Recovery (CoRR) to launch in-depth pilots in select buildings to collect data, test products and support the broader rollout of food scrap recovery across the region.

The system being piloted includes the use of water-resistant paper bags for compost recovery, which are anticipated to facilitate greater participation while also ensuring that composters in the region can process the waste easily into high-value soil products. Increasing the availability of compost for the region's farms can also help them reduce irrigation needs, a crucial drought-fighting measure. These efforts are part of an overall organizational mission focused on advancing smart solutions to climate change.

"The Bay Area has been an incredible leader in many green urban practices, including food scrap recovery, which makes this community a perfect partner as we develop guidance and toolkits for cities and property owners," said Lily Kelly, senior program associate at Global Green USA and the project's coordinator. "We are able to help East Bay families living in apartments divert their food scraps back into their local food system while getting useful data along the way that demonstrate reduced greenhouse gas emissions."

When tenants were presented with the bin and bag kits, nearly all showed a strong desire to participate in the program. "It's about time!" was a sentiment frequently expressed. Most multi-family buildings in the Bay Area, and across the country, have yet to implement food scrap recovery systems. Food scraps account for 43 percent of the landfilled waste from Alameda County's multi-family residences, releasing emissions equivalent to over 50,000 metric tons of CO₂ annually. If all this waste were to be composted, it would reduce carbon emissions equivalent to planting over 1.3 million trees every year.

"This really is the future of property management," said Erik Eichner, the co-founder and owner of Eichner Properties, which owns and manages several multi-family buildings in Albany. "Helping our tenants divert their waste is becoming a normal part of running a multi-family building."

In addition to undertaking initial waste audits and much of the outreach to property owners and tenants, Global Green USA organized the initial donation of bins and bags to the buildings from CoRR members.

The leak-resistant paper bags for collecting scraps in the kitchen were donated by Bag to Earth, and were designed to be compatible with the needs of the local compost facility. George Colgan, president of Bag to

Earth, said, "Our compostable bags are designed to be strong and moisture-resistant, with the natural fiber liner made of cellulose, while still being 100 percent paper, which makes them a great fit for the composting processes used in this region."

CoRR member ORBIS Corporation donated dozens of small kitchen countertop bins to the pilot households. "We recently launched the newest line of bins for use in home kitchens, and we are excited to get feedback from the Albany families that are part of Global Green's pilot," said John Sebranek, environmental marketing manager at ORBIS. "The Kitchen Collector can fit many different sizes of bags, and it is designed to go on the counter to make it easy to dispose of food scraps while cooking."

According to the EPA, 95 percent of food scraps are landfilled in the U.S. each year, resulting in greenhouse gas emissions equivalent to 7 coal-fired power plants. This pilot is the third of a series of food scrap recovery systems that Global Green will be helping deploy over the next year in major cities in California and New York. The organization will then compile the results of these pilots into a "Best Questions" guide to assist property managers and municipalities as food scrap recovery programs are rolled out across the country.

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UPCOMING TOPICS

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03/15 Paper/Plastic Balers

04/15 Magnets

05/15 Fluid Recovery

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.

"Humanure" inventor is upcoming USCC award recipient

A South Carolina program leading the way to markets and food scrap composting, a longtime industry advocate dedicated to composting education and a researcher who has brought her studies to multiple audiences are among those receiving recognition from their peers at the U.S. Composting Council (USCC) at an upcoming January 22 awards ceremony.

Awardees are nominated by peers and honored each year at the USCC's annual conference and tradeshow.

Composter of the Year will be awarded to Charleston County Environmental Services' Bees Ferry Compost Facility, processing 60,000 tons of green and food scraps each year as one of the region's first food scrap recyclers.

Dr. Peter J. Stofella of the University of Florida will receive the Clean Water Award, bestowed on researchers or organizations whose projects improve water quality through the use of organics, or increase awareness of the link between quality soil, compost and water quality. Stofella, director of the Indian River Research and Education Center, focuses his team's research on use of compost as a horticultural substitute to minimize leaching of phosphates, nitrogen and heavy metals into groundwater and surface water runoff.

The Rufus Chaney Award will go to Jean Bonhot, who has dedicated her career at the Cornell Waste

Management Institute to research and technical assistance to a range of audiences, including youth, college students, farmers and solid waste managers. The Rufus Chaney award is reserved for recipients who excel in research and education.

Longtime composting champion Frank Franciosi will be recognized with the Hi Kellogg Award, for outstanding service to the composting industry. Frank has worked in the compost industry as a manager, trainer, USCC officer, legislative advocate and founding member of the USCC's North Carolina Chapter.

The H. Clark Gregory Award, which recognizes grassroots education

and awareness of composting, will be given to Joseph Jenkins, an author and composter known for his expertise on human excrement composting. He is credited with coining the term Humanure through his writings, speaking and teaching and has been interviewed extensively about his composting "loos" or toilets.

NYC Composters, New York City's compost outreach and collection program, will be honored with the Composting Program of the Year award recognizing composters of less than 10,000 tons of feedstock. The program collected and composted 1,784,012 pounds of organics throughout the city in FY2014.

BioHitech helps hospitals digest

BioHitech America, a food waste removal company, is adding two more hospital systems to their list of nearly two-dozen healthcare clients. Their on-site Eco-Safe Digester was recently installed at Boston Medical Center in Boston and Baystate Medical Center in Springfield, Massachusetts.

The company's Eco-Safe Digester, an on-site aerobic digester, eliminates up to 2,400 pounds of food waste in a 24 hour period by converting it into nutrient-neutral water and transporting the water safely through standard sewer lines. The BioHitech Cloud reporting platform measures key metrics to optimize the food waste disposal process and help eliminate food waste from the start.

Veolia and IBM enter partnership to transform management services for cities

IBM and Veolia have entered into a partnership to provide new solutions that integrate digital technologies into urban services to improve the efficiency of municipal systems around the world – a partnership which opens up new possibilities for smart cities.

Veolia turned to IBM to transform the way they deliver digital services and solutions for urban resources for cities. Veolia will both use the new set of digital services to improve performance with current clients, and also offer new turnkey ready-to-use digital solutions to other cities.

IBM and Veolia will first deliver new solutions for Smarter Water, incorporating the IBM Intelligent Water soft-

ware which allows for better utilization of data, and provides a management system for the integration, optimization and analysis of all data related to water management.

The new solutions for water are currently under development in Lyon, France, and Tidworth, England, where Veolia is providing water and waste water management services to citizens using automated water management technology. By integrating data across municipal water management systems and applying analytics to spot trends, patterns, make predictions and provide a systems-level view of operations, Veolia will contribute to more efficient water management, improved reduction of waste, better cost controls for its clients as well as improved accountability to city leaders.

Designed to help cities operate more efficiently, provide better service to citizens and ensure effective management of resources, these solutions enable them to address some of their most pressing needs and make cities better places to live for their residents.

"Cities generate enormous amounts of data that must be constantly managed," said Antoine Frerot, chairman and chief executive officer of Veolia. "Veolia supplies millions of people with water, energy and waste management services every day. By combining our deep expertise with IBM's data-driven insight, Veolia is creating a paradigm shift in urban management which in turn will help cities improve efficiency and deliver better services to citizens."



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Spotlight

■Continued from Page 4

domestic use, inconsistent demand and price, discounted metallic valuations based on content and challenges with international import regulators. Process equipment and improvements can help companies to increase metals revenue from existing feedstock, diversify product offerings and allow for rapid adjustment in changing market conditions relative to factors such

as regulation, supply and demand of certain products.

"Companies can increase the purity of their products and increase revenue via the Steinert x-ray sorting equipment because it combines the power of x-ray technology with a system designed to identify and separate material based on its elemental composition or material density. Every individual particle in the material flow is recognized and classified, increasing the range of possibilities for sorting mixed materials," Miller explained.

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San Jose celebrates food waste-to-energy conversion

The U.S. Environmental Protection Agency (EPA) and the city of San Jose celebrated the city's successful food-waste-to-energy program at a tour of the nation's first large-scale commercial anaerobic digestion facility, privately owned and operated by Zero Waste Energy Development Company.

The San Jose compost and biogas program and Zero Waste Energy Development (ZWED) facility support the city's goal of achieving zero waste by 2022. The city currently diverts about 74 percent of waste material from landfills through reuse, recycling, composting and anaerobic digestion.

During its first 10 months of operation in 2014, the ZWED facility has recycled more than 30,000 tons of food scraps from restaurants and grocery stores that would otherwise go to the landfill. This food waste generates 500 kilowatts per hour of electricity that is used to power onsite operations, and it has produced approximately 6,000 tons of compost. The facility is capable of digesting and composting 90,000 tons of organic waste per year and is expected

to produce 1.6 MW and sell excess power to the grid in early 2015.

San Jose garbage, recycling and composting systems start with state-of-the-art facilities where all commercial waste is first sorted before anything is sent to the landfill. Organic and food waste is moved to the ZWED facility, where 16 anaerobic digesters use bacteria to break down the material in an oxygen-depleted environment to create a biogas rich in methane. The gas in turn fuels a combined heat and power plant that generates electricity for adjacent recycling operations.

California recently announced the recipients of \$14.5 million in grants to reduce greenhouse gas emissions from food and other organic waste going to landfill. Five projects in California will each receive \$2.5 to \$3 million to expand or develop anaerobic digester or composting facilities similar to San Jose's.

EPA's Food Recovery Challenge and new Reducing Wasted Food & Packaging Toolkit encourage businesses and organizations to reduce food waste and



Zero Waste Energy Development captures methane from food waste to generate electricity for its recycling operations. PHOTO COURTESY OF U.S. EPA

help feed people in need. Participants donated more than 98,000 tons of food and diverted more than 375,000 tons of wasted food from landfills last year, cutting greenhouse gas emissions equivalent to taking 85,000 cars off the road.

American Textile Recycling Service closes the loop

ATRS collected approximately 10,000 pounds of clothing, shoes and household textiles through its Pledge2Recycle America Recycles Day campaign.

Americans buy five times more clothing today than they were purchasing in 1980. Yet the average person donates or recycles only 12 pounds of the 70 pounds they discard each year. Sadly, the rest ends up in our municipal landfills.

This year, American Textile Recycling Service (ATRS) decided to do something about it. So ATRS employees, friends and family along with the company's distinctive green fairies and elves took to the streets with a campaign to Pledge2Recycle for America Recycles Day. Enthusiastic green teams decked out in signature green tutus, fluffy leg warmers, oversized glasses and wacky wigs set out to learn, impact and act to make clothing and shoe recycling a part of today and every day.

Thousands of attendees gathered at ATRS sponsored events in cities including Los Angeles, Houston, Atlanta, Orlando and Nashville to learn about the many ways that recycling gently used, outgrown, unwanted clothing, shoes, toys and household textiles can impact the diversion rates of their communities, lower city dumping taxes and raise funds for local charities at the same time.

In Orlando, attendees at the Orange County Recycling Day toured the municipal landfill where clothing and shoes end up if not properly donated to textile recyclers. Employees working in Houston's vast energy corridor participated in several collaborative recycling drives sponsored by ATRS in office buildings like Post Oak Central and Energy Corridor drop off locations. Shoppers in Nashville dropped off clothing donations at Rivergate Mall.

The ATRS Pledge2Recycle campaign brought in approximately 10,000

pounds of recyclable materials that would otherwise have been thrown away during the month of November.

Textiles are one of the last most renewable resources. It requires no additional energy or carbon footprint to reuse clothing in the rapidly growing global second hand resale market. Unwearable textiles are easily cut up for the wiping rag and commercial

cleaning cloth industry, while non-absorbent textiles are graded and sorted for insulation, upholstery stuffing, automotive use, thread and much more.

For additional information, view this article on www.AmericanRecycler.com.

Closed Loop

■Continued from Page 1

approval process, Croke said. A board of advisors independent of the investors will make the final determination of who gets funded.

After making its first few loans in the first half of 2015, the fund will likely make an increasing number in future years as municipalities and others come up with new projects that can take advantage of the availability of the low-cost capital. The initial borrowers are typically requesting money for infrastructure projects that are already conceived and are awaiting availability of funding. Applicants that are rejected

now may later be approved, Croke said, as the lending process gathers momentum.

The fund aims to loan out all its original \$100 million by 2020, Croke said, and then focus on getting all the loans repaid over the next 5 years. She said it is likely that this initiative will prompt similar ones in recycling and related fields. Early on, it is looking like a success, she said.

"We're getting a ton of interest," Croke said. "We opened up the proposal process in October and we're probably seeing about five proposals per week and three or four times that many emails and questions. We're seeing some early proposals that are really good."

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