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The economic geography of landfill capacity



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Recycling glass into building materials

by MIKE BRESLIN

mbreslin@americanrecycler.com

Glass comes into our homes, commercial buildings and vehicles in the form of windows, doors, countertops, floors, fixtures, other building materials and in an endless stream of glass containers. According to industry experts, only about 27 percent of manufactured glass is eventually recycled at municipal solid waste or at construction and demolition facilities. The U.S. EPA estimates the recycling rate for glass containers at 33.4 percent. These days, however, more and more recycled glass is finding its way back into homes and commercial buildings as new construction materials.

Tune into any of the many do-it-yourself, house flipping or home decorating TV shows to see how more and more products made of recycled glass are being used effectively indoors for kitchens, baths, accent walls and outdoors for applications such as landscaping and road construction.

In fact, even entire buildings are now being made of



ash, a byproduct from coalfired power plants. Made in different colors, it can be poured into blocks, panels, or shaped in molds for whatever building material is required.

The entrepreneurial company behind Greenstone is Realm of Design, Inc., which has been designing and creating architectural details for over 20 vears for commercial and residential projects in Las Vegas, Los Angeles and across the nation. "We added some landscaping to the Morrow Royal Pavilion that used another 175,000 beer bottles and we're planning on adding a double

One of the most visible advances in employing recycled glass in construction can be seen in the new breed of countertops and backsplashes found in today's kitchens, baths, bars, laundry rooms and used for outdoor tables and seating.

One of the leading manufacturers of these surfaces that incorporate recycled glass is Polycor/Vetrazzo. "Vetrazzo is made of 85 percent recycled glass and 15 percent modified Portland white cement," said Jesse Cole, at Vetrazzo's customer service. "Variation in the glass source of a Vetrazzo slab is the result of the recycling process made possible by the nature of commingled recycling. As a result the color, pattern, size, shape and shade are unique characteristics to be expected in a slab of Vetrazzo. Each is truly a work of art."

Cole reported that from time to time their recycled glass sources change and result in slabs that may differ slightly from what is presented on its website and in samples. He said Vetrazzo is durable and more resistant to surface damage than other stone. However, all stone can be damaged by force and no stone is chip proof.

The beauty of glass recycling is it consumes less energy than manufacturing glass from scratch using sand, lime and soda, and in most cases glass is endlessly recyclable. Fiberglass products, including fiberglass insulation represents approximately 25 to 35 percent of the demand for recycled glass. Glass packaging, however, is the largest

consumer of recycled glass at about 40 to 50 percent.

Construction related products made with recycled glass are widely employed with new applications continually emerging. One of the oldest uses, still widely used and now made with advanced chemistry, is mixing bits of colored recycled glass with cementations binders to create terrazzo floors, countertops and other surfaces.

Strategic Materials Inc. (SMI) is the largest glass recycler in North America. Their end markets include containers, fiberglass and specialty markets, such as landscaping, countertops and flooring. "We've always been strong in flooring," said Scott Wightman, vice president and general manager of SMI's Specialty Division. "We have plants that take recycled postindustrial glass like clear plate glass, re-melt and color it. This enables us to offer about 30 different colors in 10 different sizes to contractors around the country that use this product as decorative aggregate in countertops and terrazzo floors."

Terrazzo dates back thousands of years and is an art form that was brought to the U.S. from Italy. Marble chips are still used in terrazzo, but they are a cheaper alternative. Those wanting a premium look tend to use recycled glass. The National Terrazzo and Mosaic Association establish standards for all terrazzo floor and wall systems and provide specifications to architects and designers.

"These people are real artists the way they put these See GLASS, Page 4



brightening up outdoor and indoor spaces.

the world's largest building made from recycled beer bottles. This 30,000 sq.ft. manufacility facturing was constructed from more than 500,000 beer bottles collected from hotels on the Las Vegas Strip. Built with a material called GreenStone, this concrete-like substitute is made from 100 percent recycled glass aggregate mixed with fly

recycled glass. In Las Vegas, spiral staircase to the front," for instance, the Morrow said Cindy McCombs, partner Royal Pavilion claims to be in the company. "For the staircase we estimate using 200,000 more beer bottles. Depending on the design for the top of the staircase, we will most likely surpass using a million beer bottles for the entire project."

> McCombs reported that their new machine for creating stair treads will be completed by July or August, and that the company hopes to soon offer a Greenstone licensing package.

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Program awards 5,300 bins

Keep America Beautiful and The Coca-Cola Company awarded 89 grants to communities in 41 states across the nation. The Coca-Cola/Keep America Beautiful Recycling Bin Grant Program will provide 3,662 recycling bins to colleges and universities, along with 1,638 bins to local governments and nonprofit organizations. The recycling bins are made possible through a grant from The Coca-Cola Foundation, the philanthropic arm of The Coca-Cola Company.

More than 66 percent of the bins are designed specifically for permanent, ongoing use in public spaces such as athletic fields, K-12 schools, fairs and festivals, special events and park settings, with the remaining 44 percent to be used by students in college residence hall settings.



"Research has shown that convenience is a key factor in getting people to recycle," said Brenda Pulley, senior vice president, recycling, Keep America Beautiful. "With Coca-Cola's continued support, the recycling bins provided through the grant program create literally thousands of new opportunities for people to recycle in public areas across the country."

The Coca-Cola/Keep America Beautiful Recycling Bin Grant Program addresses lack of convenience by providing a significant number of bins in strategic locations. Including the 2015 grants, nearly 45,000 recycling bins will have been placed by the program in 560 communities nationwide since its inception in 2007. In addition to the grants, Keep America Beautiful provides technical best practice guidance to grant recipients and organizations about setting up effective away-from-home and on-the-go recycling programs.

Grant recipients were chosen by Keep America Beautiful based on their potential to collect the most cans and bottles as well other considerations such as the extent of their need, recycling experience, and their ability to sustain the program in the future. Special outreach was made to colleges and universities through a partnership with the College

and University Recycling Coalition (CURC), a membership organization

For a full list of recipients, view this article on www.AmericanRecycler.com.

2015 Coca-Cola Bin Grant | Textile recycling program receives EPA award

Re-Clothe NY, a statewide camrecycling in New York, received a 2015 U.S. EPA Environmental Champion Award in April. A collaboration between the Secondary Materials and Recycled Textiles Association (SMART), the New York State Association of Reduction, Reuse and Recycling (NYSAR3), and the Council for Textile Recycling (CTR), the initial launch collected more than 100,000 lbs. of textiles in municipalities across New York on America Recycles Day in November 2014 - the number continues to increase as special events and local efforts continue through Earth Day and beyond.

The campaign produced an innovative set of public communication tools, including a website with a searchable database of textile drop off locations. a media relations tool kit and social media platforms. Recycling coordinators from across the state are using these tools to educate local residents about their role in preventing over one billion pounds of post-consumer textile materials, with a market value of over \$200 million, from ending up in the trash each year. This unprecedented campaign generated statewide awareness of the need to recycle textiles, with traditional and digital media attention reaching more than 4.000 media outlets.

"We believe this collaboration with paign to promote clothing and textile NYSAR3 and CTR has produced a template that can be used by any state in the country seeking to launch an effort to raise awareness about textile reuse and recovery," said Jackie King, SMART executive director. "No other state in the nation has yet undertaken such an extensive campaign to focus on this material and develop resources to provide a turnkey template for any state, municipality or town to raise awareness and increase diversion of this valuable and untapped reuse and recycling resource. We strongly urge other states to take a look and use this effort as a model for the nation."

> According to NYSAR3, each year, New York residents dispose approximately 1.4 billion lbs. of recoverable clothes and textiles, with an estimated market value of over \$200 million. NYSAR3 estimates approximately 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 textiles are actually recovered, while 85 percent ends up in landfills and wasteto-energy facilities.

> "Textiles comprise six percent of New York City's waste stream," said sanitation commissioner Kathryn Garcia of the NYC Department of Sanitation. "Our 're-fashioNYC' program aims to make donating and recycling unwanted apparel as easy and convenient as possible. With this program, we're proud to contribute to the statewide recycling campaign and congratulate NYSAR3, SMART and CTR on their national recognition."

Dynamic Recycling constructs ethanol disposal plant

Dynamic Recycling LLC is building a recycling and ethanol disposal plant in Bristol, Tennessee. The tank farm construction is complete and operations are expected to be underway by mid-June.

The capabilities of the new plant will enhance the capacity of the company's operations by 200 percent.

Once the plant is operable, Dynamic Recycling will be able to handle all operations with an increased capacity. All unsaleable consumer goods will be





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Two family recycling business innovators receive awards

The Institute of Scrap Recycling Industries (ISRI) recognized two individuals who took over family businesses and ushered in an era of innovation and success for the entire industry and the association. Both Scott Newell, founder of The Shredder Company and Toby Shine of Shine Brothers Corporation were presented with the Lifetime Achievement Award presented at ISRI's annual convention.

Scott Newell began his career working in the Texas scrap plants owned by his father Alton Scott Newell, Sr. After attending college, Scott became manager of the Newell Salvage Company of Phoenix, from 1959 to 1965. While in Arizona, Scott alerted his father to the market possibilities for shredded tin cans to be used in the copper mining industry.

Alton Newell then used his knowledge and began to design a powerful shredding machine. In 1960, the first Newell family shredder was built and patented by Alton Newell. Scott Newell built the second Newell shredder in 1961 and has been designing, building, and operating shredding systems since. In 2000, Scott Newell and his son, Alton Scott Newell, III, formed The Shredder Company, which operates a modern manufacturing plant and steel foundry in El Paso, Texas.

Newell has served on the national board of directors of ISRI, and as vice chairman of the ISRI Shredder Committee and vice chairman of the ferrous division. He has also served on the shredder committee of the Bureau of International Recycling. An important part of all his association work has been improving the recovery of nonferrous metals and finding environmentally sound applications for auto shredder residue.

Toby Shine was drawn to a career in the family's scrap business - Shine Brothers Corporation – at an early age. His grandfather, Sam, and uncle, Harry – both Russian immigrants, founded the company at the start of the 20th century. Working alongside his father, Toby quickly learned the intricacies of the scrap trade, and joined full-time in 1960. By the early 1980s Toby bought the company and the Shines made a strategic decision to adopt wire chopping to maintain their competitiveness. Soon it would become one of the top five wire chopping operations in North America. His commitment to serve ISRI included two terms as president of the Northwest Chapter; the ISRI board of directors; the wire choppers committee, the government relations committee, among other positions. He also served as chair of the National Association Supply Cooperative (NASCO-OP).

While he was visiting, my uncle asked for the wi-fi password.

"It's stuck under the desk," I told him. r-t-h-e-d-e-s-k?"

After a few failed attempts, he asked,

"Is it all lower-case? s-t-u-c-k-u-n-d-e-

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Covanta partners with RecycleForce to fill jobs in advanced recycling center

Covanta and RecycleForce, a provider of recycling services for residents and corporate clients, entered into a partnership to staff operations at the Covanta Advanced Recycling Center in Indianapolis set to break ground in 2015 with a planned opening in 2016.

RecycleForce provides electronics recycling along with comprehensive social services to help formerly incarcerated individuals rebuild their lives by breaking down the barriers to employment through transitional jobs and workforce training.

Approximately 60 permanent, fulltime workers will be hired to operate the facility once construction is completed. The exact number of jobs to be filled through RecycleForce has not yet been determined.

Employees hired through Recycle-Force are expected to fulfill quality control functions after materials pass through the Covanta Advanced Recycling Center, state-of-the-art automated materials recovery facility modeled after the most modern recycling facilities in the world.

Using the latest mechanical and sensor-based technologies, and supported by skilled operators, the facility will recover recyclables from mixed waste that will be sold to manufacturing customers throughout the Midwest.

In addition to the partnership to staff operations at the Covanta Advanced Recvcling Center, the company is exploring other staffing opportunities with Recycle-Force.

Covanta is investing \$45 million to build the Advanced Recycling Center adjacent to its energy-from-waste facility. Together, the facilities will create a firstof-its-kind, next-generation system for sustainably managing waste in North America. It will bring recycling to all single family homes in the city of Indianapolis, increase recycling by 5 times the current rate and recover up to 80 to 90 percent of valuable resources such as recyclable paper, cardboard, plastics and metals – at no cost to the city or its residents.

When recycled into new products, the materials recovered will save the equivalent of the annual energy use of more than 20,000 homes. The system complements Covanta's existing energy-from-waste facility by sharing trucks and maintaining current traffic flow and avoiding additional vehicle emissions and burdens on road infrastructure.

Since 1988, the Covanta energyfrom-waste facility has diverted 16 million tons of municipal solid waste from Indianapolis landfills by providing the city a safe and sustainable waste disposal method that reduces greenhouse gases and produces clean, renewable steam energy from solid waste. The current facility provides approximately half of the steam used by the Downtown Indianapolis steam loop.

Once the permitting process is completed, Covanta expects the Advanced Recycling Center to be up and running in



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National trade groups develop pricing guidelines for residential recycling services

Association (NWRA) and the Solid Waste Association of North America (SWANA) disclosed comprehensive new guidelines designed to improve protocols and standards for contracting practices for municipal recycling programs. The guidelines address challenges facing public agencies and private industry as they seek to improve the effectiveness of local residential recycling programs.

NWRA and SWANA's Joint Advisory on Designing Contracts for Processing of Manual Recyclables is the culmination of a nearly year long process that brought together subject matter experts from private industry and local government agencies to collectively address the need for consistent standards in contracting for

Glass recycling

floors down," said Wightman. "They use

separators to create different patterns

and create pictures in the flooring. There

are places in Las Vegas where they have

stunning floors. Many sports stadiums

use terrazzo in hallways because of the

rily epoxy flooring that's filled with a

decorative aggregate. Recycled glass is

one of the most popular. It creates really

nice floors that installers advertise as

100 year floors because they are so

durable. We are also seeing more con-

"Today terrazzo flooring is prima-

outstanding appearance and durability.

■Continued from Page 1

crete terrazzo.'

The National Waste & Recycling recycling services. Their challenge was to develop joint standards that can help municipalities and private industry cooperatively address the evolving nature of the residential recycling stream and dramatic price fluctuations in global commodities markets.

> Specific protocols in the guidelines directly address best practices for improving the quality and the quantity of materials captured in the recycling processing stream with an eye also to ensuring that recycling programs are economically viable for both local agencies and private industry.

> "With these guidelines, NWRA and SWANA have addressed head-on the challenges and obstacles faced by public agencies and private sector contractors in

designing effective residential recycling programs," commented Sharon H. Kneiss, president and chief executive officer for NWRA. "Adoption of these best practices creates a solid framework to meet the everevolving dynamics of the recycling market."

"The potential changes in the quantity and composition of collected wastes combined with variability in prices for recyclable commodities create considerable uncertainties in today's recycling markets," said John H. Skinner, SWANA executive director and chief executive officer. "It is very important for contracts for recycling services to anticipate the changes and reflect an appropriate sharing of risks and rewards between contracting munici-

palities and service providers."

Other major construction products that can include recycled glass are fiberglass insulation, ceramic kitchen and bathroom fixtures, brick manufacturing

Glass aggregate, of course, can often be substituted or augmented in gravel or crushed stone for any number of fill or leveling jobs. An emerging use of recycled glass is as a high-performance hydroponic growth medium and soil aerator. These products are engineered to help deliver proper air and water balance to plant roots without the danger of overwatering.

and as an additive to concrete.

Recycled glass has become very popular in making outdoor and indoor fire-pits. A recent design uses large pieces of glass in a pattern at the base which is backlit with LED lights that cycle through various colors.

States that support bottle bills help recyclers make better economic sense, but necessitate collection and redemption costs. Recovery is low because not enough is collected as separated, curbside waste. Curbside collection of recyclables has also become more single stream, mixing glass with paper, plastic and metal, which requires additional separating costs. Glass thrown into the garbage is not economically recyclable. Even curbside glass is not always economically recyclable if there's an insufficient quantity in an area to justify building a recycling plant.

If more, cleaner, recovered glass were available to glass recyclers, the cost for its acquisition by recyclers would likely go down. Greater recovery would reduce landfilling of glass scrap and be an environmental benefit. And, with lower prices for this commodity there would be greater incentive for scientists, entrepreneurs and builders to find new values in sustainable applications.

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June 8th-9th

NRRA'S 34th Annual Northeast Recycling Conference & Expo. Radisson Hotel Manchester/Center of NH, Manchester, New Hampshire 800-223-0150 • www.nrra.net

August 17th-19th

Waste Conversion Tech Conference & Tradeshow. Hyatt Regency Mission Bay Spa & Marina, San Diego, California. 800-441-7949 • www.wasteconversionconference.com

August 19th-20th

Agricultural Plastics Recycling Conference & Trade Show. Hyatt Regency Mission Bay Spa & Marina, San Diego, California. 800-441-7949 • www.agplasticconference.com

August 24th-27th

SWANA's WASTECON. The Gaylord Palms, Orlando, Florida. 800-467-9262 • www.swana.org

September 14th-16th

Missouri Recycling Association Conference. Adams Pointe Conference Center, Blue Springs, Missouri. 573-491-4255 • www.moraconference.org



877-777-0043 Fax 419-931-0740

Publisher and Editor

ESTHER G. FOURNIER news@AmericanRecycler.com

Editorial Focus Section Editor, Production and Layout

> DAVID FOURNIER, JR. david@AmericanRecycler.com

Production and Layout

MARY E. HILL mary@AmericanRecycler.com

Marketing Representatives

MARY M. COX maryc@AmericanRecycler.com MARY E. HILL mary@AmericanRecycler.com

Circulation Manager

DONNA L. MCMANUS donna@AmericanRecycler.com

Writers and Contributors

MIKE BRESLIN

mbreslin@AmericanRecycler.com

DONNA CURRIE

dcurrie@AmericanRecycler.com

RON STURGEON

rons@rdsinvestments.com

Production Offices

900 W South Boundary, Bldg 6 Perrysburg, OH 43551-5235 877-777-0043 fax 419-931-0740 www.AmericanRecycler.com

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Recyclebank Green Schools Program funds 38 projects

Through this year's Green Schools Program, Recyclebank will provide \$69,000 in grants to environmental projects at 38 schools across the country. Each year, the Recyclebank Green Schools Program awards grants of up to \$2,500 per school for unique environmental projects that positively affect students, schools and communities.

Recyclebank's partner Domtar Corporation, helps make more green projects a reality by contributing additional donation dollars to participating schools and offering a prize of Domtar EarthChoice Office Paper to the most innovative projects. In 2015, Recyclebank expanded the Green Schools Program prizing by adding four sub-category prizes: Garden & Water, Recycling & Waste Reduction, Art & Sculpture and Sustainable & Creative Paper Usage. The grand prize winner for Most Innovative Project will receive a year's worth of paper from Domtar. Winners of each category will also receive a paper prize from Domtar. Here are the winners:

•Most Innovative Project: Imagine Hill Academy in Toledo, Ohio, for its Green Roof Project.

•Garden & Water Category Winner: John Story Jenks Academy in Philadelphia, Pennsylvania, for its Get out and Garden campaign.

•Recycling & Waste Reduction Category Winner: North Allegheny School District in Pittsburgh, Pennsylvania, for its recycling education program at district athletic events.

•Art & Sculpture and Sustainable Category Winner: Henry C. Beck Middle

School in Cherry Hill, New Jersey, for its Art/Sculpture project.

•Creative Paper Usage Category Winner: W.A. Meacham Middle School in Fort Worth, Texas, for its Reduce Paper Waste project.

This year's grand prize winner was Imagine Hill Academy, for its Green Roof project. One of the goals at Imagine Hill is to inspire students to be curious about new ideas. To build upon their environmental mission and instruction, they plan to establish a green roof on the school designed to reduce air pollution, lower heating and cooling costs and improve water quality. The structure will incorporate water collection barrels, grassy areas, plots for vegetation and the potential for solar panels. The water from the barrels will be used to nourish the rooftop plants, as well as to clean the school. Students will help in the collection and distribution of the rain barrels and will actively engage in discussions about how and when to use the rain the school collects.

The Recyclebank Green Schools Program is an annual program in which residents donate Recyclebank points to support their local school's environmental projects. The company then transfers the points into real dollars – turning the community's green actions into funds.

In addition to providing a year's supply of paper to Imagine Hill Academy, Domtar awarded \$500 to each school that was able to reach 50 percent of its donation goal. Nearly all of the 38 participating schools reached 50 percent of their fundraising goals and will receive funds from Domtar.



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Recycled playground challenge launched

TerraCycle is returning its Recycled Playground Challenge – an initiative in partnership with Colgate-Palmolive and ShopRite – to help encourage oral hygiene and sustainability among school children and consumers.

Through June 13, schools in New York, New Jersey, Pennsylvania, Delaware, Connecticut and Maryland have a chance to win a new playground made completely of recycled material.

To be eligible, the schools must participate in the Oral Care Brigade™, a free recycling program run by Colgate and TerraCycle. Schools will earn one playground credit for each shipment of empty toothpaste tubes, toothbrushes and floss containers sent to TerraCycle. Schools can earn additional playground online voting credits by http://www.terracycle.com/en-US/col gateshopriteplayground. Last year's winner was BelovED Community Charter School in Jersey City, New Jersey with a total of 178,303 playground credits earned.

This year's school with the most playground credits will be announced as the winner by July 15 and the grand prize playground will be installed during the 2015/2016 back-to-school season. The first and second runner-up schools, as well as six honorable mention participants, will be awarded various upcycled prizes and ShopRite gift cards.

RMA president Charles Cannon to retire

Charles Cannon, president and chief executive officer of the Rubber Manufacturers Association (RMA) disclosed that he will retire at the end of 2015 after nearly eight years at the helm of RMA.

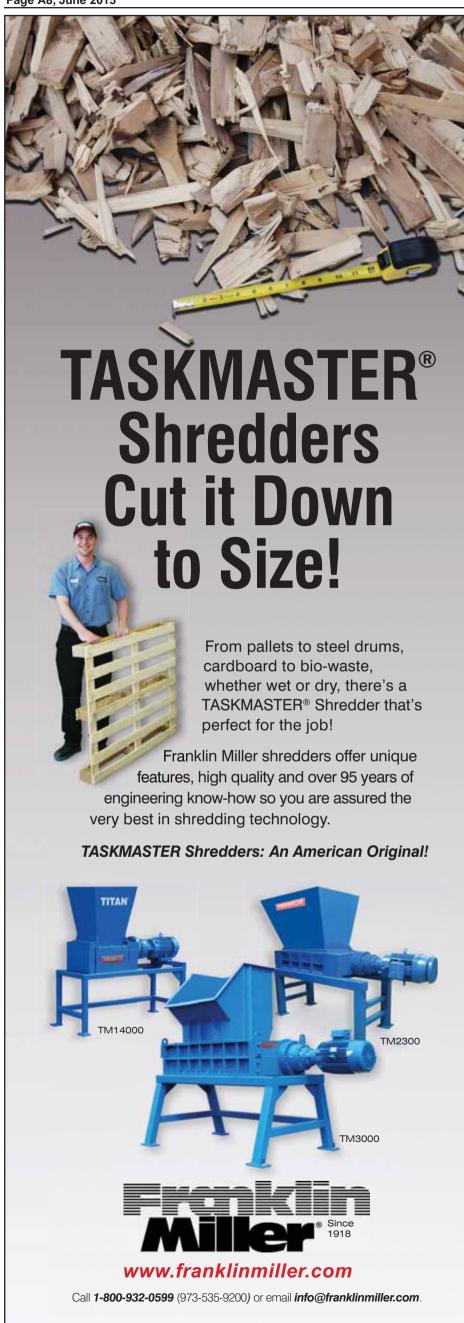
Cannon joined RMA in February 2008. During his tenure, RMA became a tire manufacturer-only trade association and the industry tackled a number of high-profile issues such as tire service life and the initial rulemaking process for a federal Consumer Information Program to create a rating system for tire fuel efficiency, tread wear and wet traction.

Under Cannon's tenure, RMA also launched a number of pro-active strategic initiatives to address the sale of unsafe used tires; seek minimum standards for tire rolling resistance and wet traction; and to address long-term shortcomings in the federal tire registration system.

A search firm has been selected to advise the RMA board of directors and help select a new RMA president and chief executive officer by late 2015. The search will be conducted by Russell Reynolds Associates.



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PLASTICS

Dr Pepper Snapple Group and KAB bring recycling to more public parks

More than 900 new recycling bins will be provided by Keep America Beautiful and Dr Pepper Snapple Group for parks across America.

Now in its third year, the Dr Pepper Snapple Group /Keep America Beautiful Park Recycling Bin Grant program has awarded more than 2,500 recycling bins to local governments and community organizations across 33 states to expand the availability of recycling in a variety of park settings, including neighborhood and larger regional parks, beaches, athletic fields and walking trails.

"We're pleased to see the momentum of our recycling bin grant partnership with Keep America Beautiful continue to build in its third year," said Vicki Draughn, vice president of corpo-



rate affairs for Dr Pepper Snapple. "Efforts like these are helping make recycling more convenient in our communities, reducing the waste going to landfills and making our public spaces cleaner and more enjoyable for everyone. It's a win-win."

For a full list of recipients, view this article on www.AmericanRecycler.com.

Repreve recycles plastic bottles into graduation caps and gowns

Unifi, Inc.'s Repreve® recycled fiber will be used in Oak Hall graduation gowns at more than 1,100 colleges and universities across the nation this year. Since the introduction of Repreve, nearly 60 million plastic bottles have been recycled into Oak Hall Green-Weaver gowns worn by more than 2.2 million students. Repreve is made from

Unifi, Inc.'s Repreve® recycled fiber be used in Oak Hall graduation ns at more than 1,100 colleges and approximately 27 bottles.

During the spring 2015 graduation season alone, more than 300,000 students around the nation will graduate wearing Oak Hall Repreve-based gowns, using more than 8 million recycled plastic bottles.



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PLASTICS

APR encourages markets to recycle rigid plastics

As grocery store chains focus on zero waste initiatives, a recently developed economic overview of recycling grocery rigid plastics helps grocers recognize that recycling their bakery, deli and other "behind the counter" rigid plastic containers makes economic sense. According to the study by the leading plastics recycling group, recycling of these containers reduces the amount of material going to landfill, while at the same time generating new revenue for the chains.

The Association of Postconsumer Plastics Recyclers (APR), the trade organization representing the plastics recycling industry in North America, developed the Grocery Store Recycling Program in 2013. A 2014 case study of multiple grocery rigid plastic recycling programs revealed an average conventional supermarket generates between 80 to 150 lbs. per week of rigid plastic containers within the bakery, deli, seafood and pharmacy departments. The study identified the economic benefits of recycling rigid plastics in supermarkets including lower waste disposal costs, as well as potential new revenue from marketing these materials.

APR pointed out that most plastic packaging used behind the counter can be easily separated and used as feed stock for many domestic plastic recyclers. The Grocery store project targets the recovery of high density polypropylene (HDPE – #2) and polypropylene (PP – #5) trays, pails and covers.

"There is tremendous demand for these containers from grocery stores," stated Scott Saunders, general manager of KW Plastics in Troy, Alabama and chairman of APR. "Because it is generally clean, and already separated, grocers should be able to generate substantial revenue should they make this material available for recycling."

As growing numbers of U.S. supermarket chains recycle their rigid plastics as part of their Zero Waste strategies, the case studies reveal that removing 5,000 to 7,000 lbs. of bulky rigid plastics from local landfills not only lowers grocer's annual waste disposal costs, but can also generate new recycling revenue through volume marketing.

Behind-the-counter rigid plastic packaging is becoming an integral part of supermarket recycling strategy. The studies found that a 1,000 lb. bale of recycled rigid plastic can be worth \$100 to \$200, while cardboard is generally worth \$20 to \$30.

"Our studies show there is at a minimum at least 350 million lbs. of good, clean material available through stores for recycling," commented Steve Alexander, APR's executive director. "That is a great potential source of new material for recyclers, and a new revenue stream for stores. We are excited about the project, and expect to see it grow dramatically in the next few years"

Agricultural Plastic Recycling Conference IIII August 19-21, 2015 Hyatt Regency Mission Bay Spa & Marina San Diego, California http://agplasticconference.com

PAPER

AF&PA releases March 2015 paper reports

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

Containerboard

Containerboard production rose 1.1 percent compared to March of last year. The month-over-month average daily production compared to February 2015 was 0.8 percent lower. The container-board operating rate for March increased to 95.5 percent from February's 94.7 percent.

Kraft Paper

Total Kraft paper shipments were 130.4 thousand short tons, 1.9 percent higher than March 2014. Bleached Kraft paper shipments increased from 8.3 thousand tons in February 2015 to 8.9, while unbleached Kraft paper shipments increased from 108.6 thousand tons to 121.4. Overall, shipments for the first three months of 2015 were 3.8 percent lower than the same period in 2014. Total month-end inventories increased to 85.8 thousand tons.

Printing-Writing Paper Report

According to the report, total printing-writing paper shipments decreased 4 percent in March compared to March 2014, with inventory levels essentially unchanged from February.

•Uncoated free sheet (UFS) paper shipments in March decreased 1 percent compared to March 2014. Imports of UFS increased 6 percent year-over-year in February but are down 2 percent year-to-date.

•March coated free sheet (CFS) paper shipments decreased 3 percent compared to March 2014. Imports of CFS papers also decreased 3 percent in February, the first year-over-year decrease in the last 10 months.

•Uncoated mechanical (UM) paper shipments decreased 9 percent when compared with March 2014. Imports of UM papers were down 12 percent in February, the eighth consecutive monthly decline.

•Coated mechanical (CM) shipments in March decreased 14 percent relative to March 2014. Imports of CM were up 16 percent in February and exports increased by 17 percent, the second consecutive increase.

Paperboard Report

Total boxboard production decreased 2.6 percent when compared to March 2014 but increased 8.3 percent from February. Unbleached Kraft boxboard production increased over the same month last year and increased compared to last month.

Total solid bleached boxboard and liner production decreased when compared to March 2014 but increased compared to February. The production of recycled boxboard decreased compared to March 2014 but increased when compared to February.

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American Recycler

INDUSTRY PROFILE

A Closer Look

by Donna Currie

■Vermont Compost Company

Karl Hammer • 802-223-6049

The mission of Vermont Compost Company is to provide compost for growing organic products. That doesn't mean the compost itself is organic, Karl Hammer, the founder and president, explained. Agricultural products are the only things that can be labeled organic in the U.S. – but the compost is certified for use in organic agriculture. "We're third party inspected to stay certified," Hammer said.

The company was founded in 1992, and currently sells blended media, container mixes and potting soil created from the food waste from homes, restaurants, and commercial entities as well as manure from farms.

Since 1998, the company also hosts a flock of laying hens that feast on the waste and leave behind their own contributions to

Karl Hammer

the compost. "They forage all year long," Hammer said. "We use an older, heavier bird because they need to go out in the Vermont winter."

Since they're pastured hens, "they are actually free to leave," he said, but they have no reason to wander, since food is plentiful and there is enough shelter to keep them comfortable. Meanwhile, the heat generated from the composting process helps keep the chickens warmer than they would be in other outdoor scenarios.

All those chickens produce eggs which are sold, but Hammer noted that "part of the salary package here are eggs." There are a total of 12 employees, including Hammer's son, Sid, so there are plenty of eggs left for sale, but "we could sell more eggs than we get."

The composting process isn't quite as simple as piling up waste materials and hoping for the best – there's science behind it, and several steps in the process that starts with the raw food waste and manure kept at 95 to 100 degrees with restricted oxygen, followed by another stage at higher heat and more aeration, with the material being turned several times during that stage.

Depending on the final use, the product might be further aged, while some applications can use a much younger compost material.

The core customers of the business are commercial organic greenhouse growers, but the company also sells to schools, nurseries, and individuals. "We're on the roof of Fenway Park, growing vegetables," Hammer said.

In Vermont, the law requires the removal of organics from landfills based on the size of the waste generators, but Hammer said it won't be long before all organics from all sources are banned.

Right now, the majority of the organics received at Vermont Compost are from culinary institutes, restaurants, schools, grocery stores, hospital, cafeterias and similar generators, but they also accommodate residential drop off of "food residuals."

While Vermont Compost charges companies per ton for the materials received, Hammer said that it saves companies money since the waste can't be landfilled and he said that separating the food waste "also makes the rest of their garbage less offensive, particularly with restaurants."

The companies also get bragging rights, since they get stickers they can put on their doors that say, "We Compost."

Hammer said that composters are "the gatekeepers for the soil" making sure that waste is handled properly and that it is turned into something that benefits agriculture. One of the most difficult things in the business is teaching companies what can and can't be composted. "Chickens don't want plastic and neither does the compost."

Government regulations can also be difficult because, he said, "we fall into the cracks between agriculture and solid waste."

Another challenge is that although some people like the concept of composting, they're not too sure they want a compost facility near them, but Vermont Compost proves that a compost facility can coexist with city dwellers. "We're on the main street in the capitol city," he said, "about a half mile as the crow flies from the Capitol."

Hammer said that composting is "a task that requires vigor and rigor." Since his end users need compost for their businesses, and their businesses are often providing food to the public, "we have to deliver performance." The proof of that performance is that he has had the same customers coming back to him for compost year after year.

Vermont Compost brings in waste and produces compost, but it's part of a bigger cycle of people and products from farmers to consumers to waste to compost – and back to the farmers again, and that's what Hammer likes best about the business he built. "We're part of a community that is producing very wholesome food for their communities," he said.

AUTOMOTIVE

GM to invest in electric vehicle development

General Motors' (GM) sustainability report chronicles efforts by the company's 216,000 employees to live out GM's newly defined purpose and values.

These actions – led by chief executive officer Mary Barra – further drive sustainability into the company's culture through building safer and smarter vehicles with less environmental impact.

"GM will take a leading role in the auto industry's transformation as it undergoes an unprecedented period of change," said Bob Ferguson, senior vice president, GM Global Public Policy.

The company believes the future is electric, with billions of investment to support an all-in-house approach to the development and manufacturing of electrified vehicles. It now counts 180,834 on the road in the U.S – up from 153,034 in 2013.

Chevrolet is helping make EVs more mainstream by:

•Expanding sales of the Spark EV to Maryland with a strong infrastructure.

•Committing to produce an electric family vehicle for all 50 states that will go 200 miles on a charge and cost roughly \$30,000.

•Designing the second-generation Volt arriving at dealerships this fall with a lower price than the original.

•Announcing a hybrid version of the Malibu that is expected to get a combined 47 city/highway miles per gallon.

Additionally, Cadillac announced plans for a plug-in hybrid of its range-topping Cadillac CT6 and Buick offers e-Assist light electrification technology on its LaCrosse and Regal.

GM's 122 landfill-free facilities inspired an aspirational goal to become the first automaker with all manufacturing sites sending zero waste to landfill. GM's recycling and reuse efforts in 2014 – 2.5 million metric tons – avoided more than 10 million metric tons of CO2-equivalent emissions, which more than offset its worldwide manufacturing emissions.

KAR Auction Services reports results

KAR Auction Services, Inc. reported its first quarter financial results for the period ended March 31, 2015. For the first quarter of 2015, the company reported revenue of \$632.4 million as compared with revenue of \$583.8 million for the first quarter of 2014, an increase of 8 percent. Net income for the

first quarter of 2015 increased 163 percent to \$54.5 million.

The company also announced a cash dividend of \$0.27 per share on the company's common stock. The dividend is payable on July 2, 2015, to stockholders of record as of the close of business on June 24, 2015.



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American Recycler

METALS

USW urges U.S. to get tough with Japan on trade deal

Leo W. Gerard, International president of the United Steelworkers (USW), released the following statement after an address to a joint session of Congress by Prime Minister Shinzo Abe of Japan.

"Prime Minister Abe delivered a speech highlighting the strong partnership between his country and the U.S. There is much that our two countries can do together to promote growth and opportunity around the world. We value the alliance as we value USW alliances with trade union brothers and sisters in Japan.

"But the Prime Minister was here in Washington, in part, to try and put the finishing touches on the proposed Trans-Pacific Partnership (TPP) 12 nation trade agreement. At this point, the potential benefits for Japan to continue the lopsided trade benefits it enjoys are great, while the opportunities for U.S. farmers, businesses and workers are rather limited.

"Time after time, U.S. trade negotiators have promised the American people that Japan will change, that the latest trade initiative will finally open up the Japanese market to our products. However, year after year we have seen the results: rising trade deficits with Japan, a closed market to our products and lost opportunities for America's workers.

The U.S. ran a trade deficit with Japan of \$48.3 billion. While the TPP is expected to have a lengthy phase-out period on U.S. tariffs on autos coming into our country, the tariff on auto parts will be reduced more quickly. This will only add

Leo W. Gerard, International presiof the United Steelworkers (USW), has cost thousands of workers their jobs.

"In addition, the Obama administration continues to not even ask for the inclusion of meaningful and effective disciplines to combat currency manipulation – a practice that Japan has employed in the past to steal market share, sales and jobs from U.S. producers and their workers. Other TPP countries like Malaysia also engage in currency manipulation, but the administration refuses to even consider action on this predatory trade practice – despite the fact that a bi-partisan majority in Congress favor such action.

"The North American Free Trade Agreement (NAFTA) required 62.5 percent of the content originate within the FTA, which was reduced to 50 percent in the U.S.-Australia FTA and further to only 35 percent in the U.S.-Korea FTA. Lower rules will lead to additional U.S. auto part job losses.

"It would be unfortunate if we let a car imported from a TPP country duty free to contain 65 percent auto-parts from non-TPP partners like China. Especially since the administration continually argues that we must write the rules, or China will.

"Japan's Prime Minister Abe is right to fight for concluding the TPP, since the advantages for Japan appear to be great, while the benefits for the U.S. are still questionable. Congress should thoroughly review the proposed text and make sure that an agreement doesn't continue the lopsided relationship we already face."

Harry Squires presented with ISRI's Safe Driver of the Year Award

Schnitzer driver logged over 40 years accident free

Harry Squires of Schnitzer Steel Industries in Portland, Oregon was presented with the Institute of Scrap Recycling Industries (ISRI) Safe Driver of the Year Award for operating his entire 40 plus year career without a single preventable accident. During this time, Squires has logged nearly 3 million miles on the road. The award, now in its third year, recognizes outstanding drivers who have driven a commercial vehicle for at least 20 years without incurring a preventable accident.

The Safe Driver of the Year Award is based on the following criteria:

•Nominations may be submitted only by ISRI members in good standing.

•Nominees must be full-time employees whose primary responsibility is to operate a commercial motor vehicle.

•Nominees must be current employees of the nominating member company, and must be employed for at least one year (12 consecutive months).

•Nominations must be made by someone familiar with the nominee's work history, such as manager or safety director.

•No more than three drivers may be nominated from the same company.

•Nominees must meet the minimum requirement of 20 years of verifiable employment as a commercial motor vehicle driver without a preventable accident.

Other criteria taken into account are the driver's contribution to highway safety (driver trainer), letters of appreciation, deeds of heroism on or off the job, and civic and fraternal organizations.

Squires drives Schnitzer's 1926 Mack flatbed truck, which he considers to be part of the fun of his job. The truck, which he calls Baby, is kept in pristine condition and is used as a Parade truck throughout the city and displayed at Auto Shows and other events.

The award was presented to Squires at ISRI's 2015 Convention in Vancouver. In addition to travel to and lodging at the convention, he received a crystal truck trophy, personalized certificate, ISRI Safe Driver leather jacket, congratulatory letter and a \$500 personal check.

The second place winner was Kim Carr of GLR Advanced Recycling Roseville, Michigan, and third place went to Greg Drier of Padnos, Inc. in Holland, Michigan.

In the department store, a greeter asked, "Can I help you find something?"

"How about my misspent youth?" said the man.

The greeter quickly replied with a serious face, "We keep that way in the back, between world peace and winning lottery tickets."



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METALS

AIST awards Steelmaker of the Year and others

Mario Longhi, president and chief executive officer of United States Steel Corporation, was named Steelmaker of the Year at AISTech 2015. The Association for Iron & Steel Technology's (AIST) award is presented annually to recognize notable leaders and their contributions to the steel industry.

Longhi received the honor in May during the President's Award Breakfast, recognizing him as a transformative leader dedicated to the safety and wellbeing of every employee and affiliate of the company, and as a champion of change who drives performance through innovation, inspiration and human capability. Through his high energy leadership of the enterprise wide Carnegie Way transformation, he is committed to reinventing United States Steel Corporation and restoring its role as an icon of the global steel industry.

Other award winners included:

AIST Distinguished Member and Fellow Awards — Established in 1975, the Distinguished Member and Fellow Award is presented to an AIST member who has attained eminent distinction in advancing the technical development, production, processing and application of iron and steel and/or related activities and has performed meritorious service.

Kenneth E. Blazek, principal research engineer, ArcelorMittal Global R&D, East Chicago, Indiana.

Blazek received this award for his significant contributions to the scientific understanding of continuous casting, and for his distinguished service to AIST.

Anthony R. Bridge, chief operating officer of Chester Engineers, Moon Township, Pennsylvania.

Bridge received this honor in recognition of his inspirational career dedicated to the evolution of blast furnace and alternative iron production technologies. His steadfast management of personnel and process, as well as his leadership of AIST as its president, earned the respect of his peers.

Bruno C. De Cooman, professor, Pohang University of Science and Technology, Kyungbuk, Pohang, Korea.

De Cooman received this award for his meritorious service to the steel industry through relevant research for advanced steel rolling and processing, and for his enduring efforts to educate industry professionals through curriculum development and teaching within the university system and AIST programs.

Andrew Harshaw, chief executive officer, ArcelorMittal Burns Harbor, Indiana.

Harshaw received this honor in recognition of his distinguished career in integrated steel manufacturing operations and maintenance throughout North America, and for his exceptional leadership and service to AIST. His ability to motivate and inspire his colleagues, combined with his astute technical expertise, are without equal.

AIST William T. Hogan, S.J. Lecture Award — Established in 1990, this honorary lecturer is selected in recognition of individual outstanding leadership to the iron and steel industry, with selected lectures covering trade, economics, steel industry operations, developments or forecasts.

Lourenco Goncalves, chairman, president and chief executive officer, Cliffs Natural Resources Inc., Cleveland, Ohio.

Goncalves' keynote lecture was entitled "Global Iron and Steel Outlook."

AIST Tadeusz Sendzimir Memorial Medal — This distinguished award was established in 1990 to perpetuate the memory of Dr. Tadeusz Sendzimir's achievements and engineering contributions in developing process equipment for the steel industry. The award is presented in recognition of an individual who has advanced steelmaking through the invention, devel-

opment or application of new manufacturing processes or equipment.

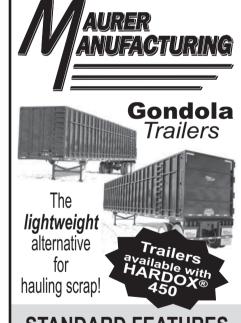
Frank L. Kemeny, president, Nupro Corp., Lewiston, New York.

Kemeny received this honor for outstanding contributions to the steel industry through the development of innovative sensors and process control systems. His novel applications of measurement, control and automation technologies have led to significant process improvements and have advanced the understanding of steel production.

Howe Memorial Lecture — This award was established in 1923 to honor the late professor Henry Marion Howe, who helped turn steelmaking from an art into a science. This honorary lecturer is selected in recognition of individual contributions to the practice of iron and steel metallurgy or metallography.

Yakov M. Gordon, technical director, ironmaking, Hatch Ltd., Mississauga, Ontario, Canada.

Dr. Gordon's presentation was titled "The Role of Engineering Consultancy in the Transformation of a Technology Idea to a Working Process Plant."



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#1 & 2 Mixed Steel	per gross ton	163.00	165.00	185.00	220.00	242.00		
Shredder Bundles (tin)	per gross ton	100.00	102.00	141.00	165.00	182.00		
Crushed Auto Bodies	per gross ton	100.00	102.00	141.00	165.00	182.00		
Steel Turnings	per gross ton	89.00	89.00	91.00	102.00	140.00		
#1 Copper	per pound	2.57	2.20	2.70	2.58	2.76		
#2 Copper	per pound	2.42	2.00	2.56	2.42	2.58		
Aluminum Cans	per pound	.50	.60	.65	.62	.60		
Auto Radiators	per pound	1.60	1.50	1.60	1.39	1.73		
Aluminum Core Radiators	per pound	.54	.50	.62	.83	.56		
Heater Cores	per pound	1.15	1.12	1.13	1.10	1.72		
Stainless Steel	per pound	.45	.40	.57	.60	.52		
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American Recycler

INTERNATIONAL

Redwave plans and builds Belgium paper sorting plant

Stora Enso Langerbrugge Paper Mill produces premium paper products out of 100 percent recycled paper, collected within a 300 kilometer radius, encompassing about 80 million people. "We call it the urban forest. We get the fiber we need by collecting old paper from the households, no wood is used here to produce paper," said Chris De Hollander, managing director of Stora Enso Langerbrugge Paper Mill.

Stora Enso Langerbrugge Paper Mill has been a 65 percent majority shareholder of Vlar Papier since 2005 and employs 380 people. Vlar Papier in Belgium is active in the procurement of paper and board through inter municipalities.

"Operating the two Vlar Papier PfR (paper for recycling) sorting lines on our premises ensures that about 40 percent of Langerbrugge Mill's need for high quality sorted paper is provided directly to the mill. On a yearly basis, we need 700,000 tons of high quality sorted paper to make 550,000 tons of uncoated magazine paper and newsprint. This kind of local sourcing and handling is cost-efficient and sustainable," Chris said.

The total plant has been designed, manufactured, built and commissioned

Stora Enso Langerbrugge Paper by the Austrian company Redwave as a produces premium paper products turnkey project.

The company sorts the inflow of the raw material into two high quality fractions: paper and board.

The sorting plant has been designed for an inflow of 36 tons per hour with the flexibility to increase to 40 tons per hour on the right mix of the inflow material.

The latest sorting principles and advanced control concepts are realized for the highest possible automation grade with online quality monitoring and plant optimization tools. Redwave PMCS (Plant Monitoring and Control System) has been specially developed to control, monitor and optimize the entire treatment. The process is continuously controlled by material analyze of the Redwave sorting machines and controlled via volumetric and mass specific requests.

The installation includes a large primary dosing bunker, a corrugated cardboard screen, fine screens, paper spikes, optical sorting Redwave machines and a recovery line to obtain a maximum paper yield from the combined paper and board input fraction as well as an own fine paper line.

ALTERNATIVE ENERGY

Blue Sphere closes on joint venture for biogas generation facility in Rhode Island

Blue Sphere Corporation has closed on a joint venture with an affiliate of York Capital Management to develop, construct and operate a 3.2 MW biogas generation facility in Johnston, Rhode Island under the management of Entropy Investment Management.

Under the terms of the joint venture, Blue Sphere owns 22.75 percent of the project and received an initial payment of \$1,481,900 in cash at the closing. Two payments of \$562,500 each are expected to be paid later this year upon the project achieving mechanical completion and commercial operation milestones.

Blue Sphere chief executive officer Shlomi Palas noted that this is the second closing for the company in 2015, stating "we closed on a joint venture to develop a second significant food waste to energy facility in the U.S., which, under the current construction timeline for the project, is anticipated to commence production and sale of electricity during the fourth quarter of 2015. We booked our second round of revenue in the history of the company from the cash payment received at the closing of the joint venture, and upon successful completion of the project, expect to earn regular revenue from the sale of electricity, compost and feedstock tipping fees."

Orbit Energy, Inc., based in Raleigh, North Carolina, co-developed the project. Blue Sphere has made arrangements for the inclusion of two of Orbit's high solid anaerobic digester units to work in parallel with the digesters of Austep S.p.A., the project's EPC contractor, subject to the fulfillment of certain conditions.

EPA awards electricity project

Republic Services, Inc. said that its Sand Valley Landfill Gasto-Energy (LFGTE) project in Collinsville, Alabama has been named Electricity Project of the Year by

the U.S. Environmental Protection Agency (EPA.)

Republic Services' subsidiary GEK, Inc. partnered with Energy Developments, Inc.'s (EDI) subsidiary Bio Energy (Alabama), LLC to develop the Sand Valley LFGTE project, which also involves the Tennessee Valley Authority and Sand Mountain Electric Cooperative.

The Sand Valley LFGTE project has a generating capacity of 4.8 megawatts and supplies power to approximately 4,000 homes in the area. Renewable power generated at the site is sold to the Tennessee Valley Authority, and exported through an interconnection with Sand Mountain Electric Cooperative.

LFGTE projects typically involve capturing methane from biogas, which is generated when materials such as paper, food and yard waste decompose within a landfill. The methane can be harnessed and converted into renewable energy sources that supply the local power grid. This process can displace the use of fossil fuels for energy generation and use, which can significantly reduce greenhouse gas emissions in a community.

Republic Services has implemented 72 landfill gas-to-energy projects nationwide. In addition, Republic recently announced a goal of developing at least two more LFGTE projects per year. The two additional LFGTE projects each year are expected to result in roughly 20,000 tons of avoided carbon dioxide.

My ten month old child was sitting in her high chair, twisting and moving all over the place. My wife said to me, "Straighten her up."

I looked at my daughter and said, "What are you doing with your life? Do you want to be this way forever? It's time to grow up."

My wife hasn't asked me to do anything since.



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American Recycler

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ALTERNATIVE ENERGY

EAWC Technologies builds waste-to-energy plant

EAWC Technologies has signed an agreement with Tecnologias Verdes SA de CV, a private Mexican Corporation, to build the country's first waste-to-energy (WtE) plant at the state of Chiapas.

"This plant is designed to process waste material in order to produce an estimated 95 million cubic meters of synthetic gas," according to EAWC Technologies chief executive officer Ralph Hofmeier. "The resulting synthetic gas, or 'syngas', which could then be used to power an internal combustion engine or turbine used to power generator for electricity," he pointed out.

EAWC Technologies estimates it will receive over \$5 million in revenue for this first project in the Mexican market. Management believes this is the most efficient, cost effective and profitable solution that Mexico faces to rid itself of organic and inorganic; solid or liquid waste and simultaneously help manage its energy needs.

•Mexico produces at least 39,385,595 tons/year of urban waste, not including organic waste of unusable harvested agriculture, raw sewage and contaminants;

•Mexico is a net importer of natural gas, mostly via pipeline from the U.S.;

•Natural gas demand is rising because of greater need for power generation;

•Mexico consumes 250 terawatt hours (TWh) of electricity per year;

•The per capita usage per year is about 1,578 Kwh with consumption expected to increase.

This waste-to-energy plant by EAWC is a closed loop elemental recycling system that safely destroys wastes and produces commodity products. It is expected to clearly demonstrate how it can solve serious environmental challenges for Mexico. According to Tecnologias Verdes, it has plans for more than 30 similar projects involving EAWC WtE plants.

Duke plans solar energy farm

Duke Energy received regulatory approval from the North Carolina Utilities Commission (NCUC) to construct a solar farm at Marine Corps Base Camp Lejeune in Onslow County, North Carolina.

The project is Duke Energy's first solar facility at a military base. Covering 80 acres, the facility will be owned and operated by Duke Energy Progress (DEP) and is expected to be online in 2015. The project will enable the Department of the

Navy and U.S. Marine Corps to meet critical renewable energy and energy security goals.

Crowder Construction Services, based in Charlotte, will serve as the engineering, procurement and construction contractor. The project will use approximately 55,000 monocrystalline solar panels supplied by SolarWorld Americas. GE's Power Conversion business will supply its Brilliance inverters.



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Page A18, June 2015

American Recycler

BUSINESS BRIEFS

Advanced Disposal acquires Little Hoppers

Advanced Disposal has completed the acquisition of Little Hoppers based in Sturgeon Bay, Wisconsin.

The acquisition includes municipal, residential and commercial customers throughout Door and Kewaunee Counties, a municipal solid waste, construction and demolition and metals transfer station along with equipment. Ten Little Hoppers' employees are joining the Advanced Disposal team including the previous owner of Little Hoppers, Steve Estes, who is now serving as Advanced Disposal's general manager for the hauling company and transfer station.

Colonial Metals makes executive changes

David Serls, chief executive officer of Colonial Metals Company's board of directors disclosed that Michael Mann, after a total of 45 years of service, will officially step down in June 2015. He will stay on as an advisor and a member of Colonial's board of directors.

Serls has named Craig Friedman as Mann's successor. Friedman has been with Colonial since 1989 and has served for the last 12 years in the capacity as executive vice president. Friedman is serving as president and chief operating officer as of early March 2015.

Friedman will also remain as a director of Colonial's board and direct all phases of sales, purchasing and manufacturing in his capacity as executive vice president.

Chris Lund promoted to GBB senior vice president

Gershman, Brickner & Bratton, Inc. (GBB) has promoted Christopher A. Lund, PE, PSS, to the position of senior vice president.

Lund joined GBB in April 2008 as a senior project engineer. In March 2013, along with John Carlton, PE, BCEE, he joined GBB co-founders Harvey Gershman and Bob Brickner as part of the firm's ownership group.

Since joining the firm, Lund has been the key project team leader for GBB, which is the appointed receiver for the Guam Solid Waste Authority since a March 2008 Court Order issued by the U.S. District Court of Guam, providing overall engineering and project management. As part of the receivership team, Lund is performing the planning, and management of the day to day project engineering, quality assurance review and analysis, and environmental management for a consortium of engineering and environmental firms conducting design, permitting and compliance reporting and construction management. Additionally, Lund executes design, environmental and construction procurements for the new landfill construction, operations, permitting, environmental compliance and dump closure projects.

Prior to joining GBB, he consulted 13 years with Dames & Moore/URS and Bowman Consulting Group; chief engineer/water division director for the Guam Environmental Protection Agency for 6 years; and Engineer Tech at the Wisconsin Department of Natural Resources, Bureau of Engineering, for 3 years.

Quest Resource names Russell J. Knittel to board

Quest Resource Holding Corporation has appointed Russell J. Knittel to the Quest board of directors.

Knittel has more than 35 years of experience with hi-tech companies ranging from startups to Fortune 500 companies. He has held various senior management positions and is experienced in general management, venture capital, bank and lease financing, public and private debt financing, initial public offerings and mergers and acquisitions. In addition, Knittel's experience includes serving on the board of directors for public and private companies.

Knittel currently serves on the board of directors of Synaptics Inc., a publicly traded developer and supplier of custom-designed human interface solutions, and Source Photonics, a privately held, equity-backed provider of optical communication products.

Knittel served as interim president and chief executive officer of Synaptics from October 2010 to September 2011; as executive vice president from July 2007 to October 2010; as chief financial officer, chief administrative officer, secretary, and treasurer from November 2001 to October 2009; as senior vice president from November 2001 to July 2007; and as vice president of administration and finance, chief financial officer, and secretary from April 2000 to November 2001. Prior to Synaptics, he served in a variety of finance and administration roles with senior management duties at Probe Technology Corporation, Starlight Networks, Crystallume and Valid Logic Systems Inc.

Oil & Filter Recycler

Atlas Copco honors eight company leaders

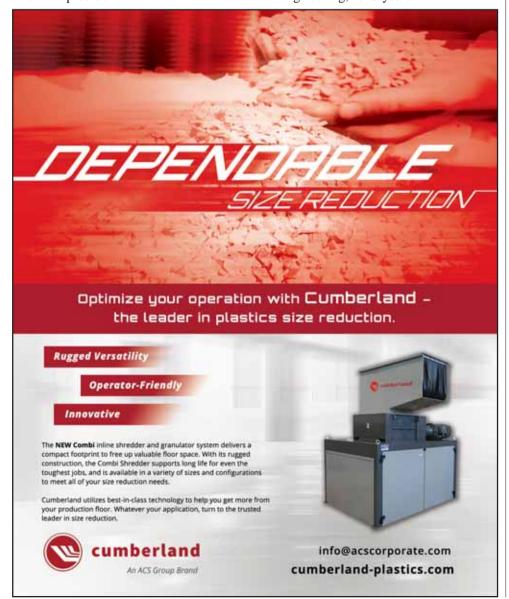
Atlas Copco Construction Equipment recently honored eight employees who made a significant impact to the company's North America operation. The eight honorees represent Atlas Copco's wide range of construction products and customer service efforts and were selected by their peers for exceeding customer and company expectations. This was the manufacturer's third annual awards ceremony.

Erik Sparby, president and general manager of Atlas Copco Construction Equipment, awarded Cumming, Georgia-based Rob Repasz, the company's southeast district sales manager, with Sales Person of the Year. Repasz is responsible for rental accounts in seven states, including Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina and Tennessee.

April Colaluca, Atlas Copco communication representative from Santa Fe Springs, California, received the division's Customer Care Award. She was recognized for her contributions that ensure Atlas Copco's customers receive quality and timely service.

Kevin Loomis, Atlas Copco construction tool business line manager, presented Greg Petherbridge, hydraulic breaker and compaction product manager, with the Construction Tool Division Contributor Award.

Kell Cleeland, Atlas Copco Carolina-area sales manager, received the Rookie of the Year Award. Cleeland joined the Atlas Copco team in 2013.





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Page A20, June 2015 **American Recycler**

BUSINESS BRIEFS

Michael Wilhoit rejoins Vecoplan as engineer

Michael Wilhoit has rejoined Vecoplan, LLC as a project engineer. Wilhoit's new position includes coordinating the design and development of turnkey shredding systems for the recycling sector. In order to ensure continuous quality control, he will also oversee the manufacture and implementation of his projects once the engineering phase has been completed.

Prior to rejoining Vecoplan, Wilhoit was managing partner at AREco Industrial Services located in Asheboro, North Carolina. AREco provided mechanical and electrical engineering services to a wide range of industrial customers across multiple markets.

Aggregate Industries US recognized for recycling

Aggregate Industries US, a Holcim Group Company, disclosed that its Severn Asphalt facility received the Gold Achievement Award for exceptional commitment to recycling initiatives.

The Severn Asphalt facility, located in Maryland, significantly increased its asphalt recycling activities 81 percent between 2012 and 2013 earning recognition from the Anne Arundel County recycling committee.

Every year the county challenges local businesses to recycle 50 percent of everything thrown away.

This award acknowledges those organizations dedicated to reducing waste and increasing recycling enterprises.

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Timken opens gear drive facility in Houston

The Timken Company has opened a new, 27,000 sq.ft., state-of-the-art gear drive manufacturing facility in Houston. An integral part of the Timken Power Systems group, the new plant will significantly improve production efficiencies in the manufacture of Philadelphia Gear brand high speed drives. Timken opened the dedicated facility to expand the company's ability to capture strategic opportunities with new and legacy original equipment customers.

To meet growing demand, Timken Power Systems equipped the facility with two 5-AXIS machines that employ gear milling technology instead of the traditional hobbing process. These machines can perform up to six different operations used to produce helical gears, shafts and pinions from raw material, with the potential to reduce the OE production cycle by weeks.

Novelis names Steve Fisher as interim president

Novelis Inc.'s board of directors has appointed Steve Fisher to serve as the company's interim president, effective immediately. The appointment followed the departure of Philip Martens, the company's former president and chief executive officer. The search for a permanent chief executive is under way.

Fisher has served as the company's senior vice president and chief financial officer since 2007 and he will continue to serve in that capacity.

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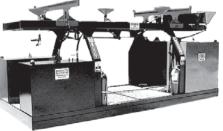
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SECTION B WWW.AMERICANRECYCLER.com JUNE 2015

The economic geography of landfill capacity

by MIKE BRESLIN

mbreslin@americanrecycler.com

Some good news! The U.S. has an unlimited amount of vacant land to build new landfills. Even with current capacity there's no danger of existing permitted landfills filling up soon. The bad news: many jurisdictions have run out of landfill capacity or are close to reaching capacity within their jurisdictions. Many are forced to haul waste longer distances at much greater expense.

That's the opinion of Jeremy O'Brien, director of applied research for the Solid Waste Association of North America (SWANA). SWANA serves over 8,000 members throughout North America. "Unlike Western Europe, where's there's constrained capacity, we have plenty of land, and almost unlimited capacity to develop landfills," said O'Brien. But, over the last 30 years in the U.S. the trend has been to use regional landfills.

"In the late 1980s we had over 10,000 landfills. Now we have 1,700 to 1,800. The number has dropped by 80 percent, but the capacity has remained about the same or increased somewhat. Rather than using the older, local dumps that were closed, today we're using much larger regional landfills. That means we have to haul waste longer distances to those sites with all of the associated issues like increased cost for rail or truck transport, increased truck accident risks, and greater air pollution."

But solid waste divisions in each state often face new and unanticipated challenges that

affect landfill capacity and costs. "North Carolina, for instance, has about 30 years of capacity and with new permitting should increase," O'Brien. "But now we're dealing with the disposal issue of coal combustion ash. And, if that goes to our MSW landfills, our capacity can disappear in a heartbeat. That's a big issue for us. Three or four years ago, there was a big spill into a river from a coal ash pond in Tennessee. Then in February, 2014 there was another one in North Carolina into the Dan River. A storm water pipe failed under an ash basin at the retired



This aerial view shows the Puente Hills Intermodal Facility, materials recovery facility and landfill complex (from left to right) located in Los Angeles County, California. The intermodal facility and materials recovery facility are key components of the Sanitation Districts of Los Angeles County's waste-by-rail system.

PHOTO COURTESY OF THE SANITATION DISTRICTS OF LOS ANGELES COUNTY

Dan River coal plant and released up to 39,000 tons of coal ash into the river. Coal ash has heavy metals in it so there's a serious water pollution concern. As a result, utilities are under pressure to avoid putting coal ash into quenching ponds on site. One is 400 acres. In turn, the state is putting pressure on utilities to move all this ash out of ponds and dispose of it in landfills. There's over 130 million tons of coal ash in North Carolina alone. It's a big number. They have to do something with it and it may cost over a billion dollars. It's a huge political issue in North Carolina," O'Brien concluded

For a broad view of current landfill capacity issues we asked for input from Bob Wallace, a principal and vice president of client solutions at WIH Resource Group, a waste management, recycling and logistics consulting firm based in Phoenix, Arizona.

"Landfill capacity is uniquely different and somewhat challenging, depending on the region," replied Wallace. "The problem is regional in nature. In a lot of areas of the country there isn't a disposal capacity problem, however in other parts, closely located disposal options are non-existent. One example is in the northeastern part of the country for cities such

as New York and New Jersey. Most of their waste volumes are being transported long distances for disposal in other states at a very high cost per ton.

"Other areas that were contemplating and anticipating limited disposal capacities, such as the Los Angeles, prepared for and built infrastructure for long haul waste-by-rail programs, but ended up realizing they no longer had a problem due to a variety of factors. In the Pacific-Northwest, in areas like Seattle, I know that King County is looking at options to deal with capacity issues.

"The major problem with disposal capacity in heavily popu-

lated areas and in certain parts of the country, are the geographical space constraints and resistance to permitting new landfills. As such, large volumes of waste are being transported long distances. In certain markets, landfill permitting is not as restricted. Rural space is available fairly close to population centers and regional disposal prices are relatively low, such as Arizona. WIH Resource Group has been retained several times for clients looking to permit new landfills. We've developed regional, market based wasteshed studies, to determine market

supply and demand coupled with population waste volume projections. Wasteshed studies are valuable to commercial developers, private sector waste companies, investor groups and public agencies that are engaged in managing their own programs for their residents.

The Los Angeles County Sanitation Districts (LACSD) spent over a decade and nearly a half billion dollars to plan, permit and build an intermodal waste-byrail facility in the county along with the new Mesquite Landfill located in the desert about 200miles from downtown Los Angeles. The plan included hauling trash in sealed containers to the intermodal facility, shipping them by rail to Mesquite and then hauling the containers by truck to the landfill. Mesquite was designed to provide LACSD with 20,000 tons a day of disposal capacity for 100 years, but under current market conditions it is not economical and the plan is on-hold.

That plan was promulgated by the anticipated closing of their Puente Hills Landfill located in southeastern Los Angeles County, which was the largest landfill in the U.S. with refuse covering approximately 600 acres of the 1,365 acre site. It was closed in October, 2013 as a requirement of the land use permit issued by Los Angeles County. The site no longer accepts waste.

Today, the intermodal rail facility is nearly completed and the Mesquite Landfill is lined and ready to accept waste, but the system sits idle because more costeffective options were found. Instead of paying an estimated \$80 per ton for waste-by-rail disposal, the LACSD is currently paying roughly half that for closer disposal by truck to Orange County.

American Recycler News spoke with Nick Morell, recycling coordinator in the facilities planning section of LACSD for an update on landfill capacity issues. "If we had to dispose of all of the trash within the borders of Los Angeles County, a capacity shortfall would exist here. But because there are other larger regional facilities within a one to two hour drive, it just makes loading it onto a train uneconomical at this point.

"I think the economic geography has changed," said Morell.
"Now our waste just travels further out, but it's still a lot cheaper to See LANDFILL CAPACITY, Page B7



Mobile equipment loads residual waste through floor opening into a transfer truck at the Puente Hills materials recovery facility.

PHOTO COURTESY OF THE SANITATION DISTRICTS OF LOS ANGELES COUNTY

A Letter from the Editor

Readers,

More than two years after he perpetrated one of the worst terrorist attacks on American soil since 9/11, Dzhokhar Tsarnaev, the Boston Marathon bomber, has been sentenced to death by lethal injection.

While we hope that the verdict gives the families of the victims some closure, we also acknowledge the realities of our criminal justice system - namely, that Tsarnaev will languish on death row for another 10 to 20 years as the appeals process plays out.

And that lengthy period of time between sentencing and execution is a major problem with the death penalty. Punishment as a deterrent works best when it swiftly follows the behavior that one seeks to deter. In this case, the attack happened in 2013, sentencing was 2 years later, and execution won't be for another 15 years (the average time on death row in 2012). So 17 years after the attack, society will finally exact retribution. In the meanwhile, there is substantial evidence that death penalty proceedings and appeals cost taxpayers a considerable amount more than similar cases in which life in prison without the possibility of parole is the only possible sentence.

The other problem isn't necessarily with the process or the cost. But by sentencing Tsarnaev to death, I fear that we've turned him into a martyr for other radical Islamists. Tsarnaev's mother has already made public comments about the U.S. burning "in the flames of an eternal and terrifying fire." How many others are out there watching and waiting to inflict further devastation to avenge this new "injustice?"

Despite the cost and the length of time it will take to carry out the execution, the sentence was necessary. By sentencing Tsarnaev to death, we send a message to other potential terrorists - we will find you, and you will be punished. We also let the families of the victims know that we care about our citizens - that America will not meet violence against her own with a slap on the wrist for the perpetrators.

Hopefully we can iron out some of the kinks in our death penalty process down the road. But, however imperfect it may be in its current form, it has been justly applied in this case. God bless America.

Until next month,

Esther Fournier Editor & Publisher

Progressive Waste reports quarterly results

Progressive Waste Solutions Ltd. reported its financial results for the three months ended March 31, 2015.

"Our performance in the first quarter gives us confidence in our 2015 outlook for revenue and free cash flow growth, on a constant currency basis, and adjusted EBITDA margin expansion of approximately 100 to 150 basis points for the year. The first quarter contributions, adjusted for the delayed volumes due to weather and insurable claims, are in line with expectations. We are reaffirming our 2015 outlook on all measures provided on February 26, 2015," said Joseph Quarin, president and chief executive officer, Progressive Waste Solutions Ltd. "In addition, we have identified further opportunities to reorganize and optimize our regional management structure, which we expect to result in a restructuring cost of \$3.5 to \$4.5 million, largely in the second quarter of 2015, and an annualized cost realize accelerated gains in adjusted reduction of \$3.0 to \$3.5 million."

Quarin continued, "We achieved a solid first-quarter performance, driven by strong organic revenue growth, excluding fuel surcharges and recycled commodities sales. Our new sales tools and training programs helped us achieve consolidated price improvement of 1.8 percent with gains in every service line, most notably in our commercial collection business. Consolidated volume growth of 1.0 percent was driven by increases in our commercial and industrial segments. We are also starting to see tangible results from our investments in our operational improvement plan. In the markets where we first introduced automated and compressed natural gas vehicles, operating costs are starting to decline. As our capital spending slows in the second half of this year with the roll-out of these trucks, we will

EBITDA and free cash flow."

Reported revenues decreased (\$9.6) million or (2.0) percent from \$469.8 million in the first quarter of 2014 to \$460.2 million in the first quarter of 2015. Expressed on a reportable basis, and assuming FX parity between the Canadian and U.S. dollar, revenues increased 2.1 percent quarter over quarter. This increase was due in large part to a 1.8 percent increase in overall pricing and higher volumes of 1.0 percent, partially offset by lower recycled commodity pricing and lower fuel surcharges.

Operating income was \$49.2 million in the first quarter of 2015 versus \$41.3 million in the first quarter of 2014. Net income was \$18.1 million versus \$25.9 million in the first quarter of 2015 and 2014, respectively.

WM awards \$300,000 to Keep America Beautiful

Keep America Beautiful and Waste Management disclosed that \$300,000 in 2015 Waste Management Think Green® Grants are being awarded to 39 Keep America Beautiful community-based affiliates and partner organizations across the country.

This is the ninth year Waste Management and Keep America Beautiful have collaborated on community based grant initiatives. During that time, Waste Management and Keep America Beautiful have awarded more than \$1.3 million in grant monies to affiliates and partners in support of more than 205 community service projects and programs.

The merit based grant program supports projects that are implemented to address local community needs. Among the 2015 Think Green Grant program recipients are:

•Keep Baton Rouge, Louisiana, Beautiful. Keep Baton Rouge Beautiful (KBRB) will host a "Waste in Place" Teacher Workshop, which will provide educational material to 20 local teachers. In addition, KBRB will recruit high school classrooms to adopt roads near their schools.

•Keep Georgia Beautiful. Keep Georgia Beautiful will provide five mini-grants of up to \$2,000 each from its Think Green Grant award for affiliates in Georgia to plant community orchards on publicly-accessible land. In turn, the community orchards will increase the local tree canopy and provide a source of local produce.

•Keep Montgomery County (Ohio) Beautiful. The Keep Montgomery County Beautiful Think Green Grant will fund public education about

the legal ramifications of illegal dumping, and provide Montgomery County citizens with tools to report illegal dumping.

•Keep York (Pennsylvania) Beautiful. The Keep York Beautiful Think Green Grant for a local organic, urban farming operation will address the complex interactions among nature, the economy and York County's food system fostering an increase in community and home gardening, while promoting the use of native plantings.

The Waste Management Think Green Grants are part of the environmental services company's commitment to encourage the development and sustainability of environmental solutions that improve community environments.



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Republic Services opens Germann Transfer Station

Germann Transfer Station, Arizona which will provide environmentally friendly waste solutions throughout the southeast Valley for years to come. The new transfer station is capable of processing more than 420 tons of waste per day, and will serve customers in Apache Junction, Gilbert, Mesa, Phoenix, Pinal County, Queen Creek, and Tempe.

"There will always be a need for the safe disposal of certain items in landfills," said Alberto Guardado, area president of Republic Services. "Waste is inextricably linked to population growth and economic prosperity in any community. This new facility will support growth in our community for generations to come."

Transfer stations serve as a central location where collection trucks consolidate waste collected from area residences or businesses, enabling trucks to more quickly return to their collection routes.

Republic Services has opened the This process minimizes the number of collection trucks that would otherwise haul waste over long distances to a landfill. In addition to the operational efficiencies, transfer stations can enhance roadway safety, reduce diesel fuel consumption and improve air quality in a community.

The Germann Transfer Station is ideally located in the southeast Valley, and is expected to eliminate roughly 4,000 collection truck trips in 2015 to outlying disposal facilities, or 15 trips per day. This is expected to reduce diesel fuel consumption in local collection trucks by approximately 120,000 gallons in 2015, or 450 gallons per day. According to the U.S. Environmental Protection Agency, the carbon emissions reduction benefits as a result of these operational efficiencies are equal to preserving more than 870 acres of U.S. forest land, or introducing more than 27,300 mature trees into the local environment annually.

Waste Connections reports increased revenue for first quarter

Waste Connections, Inc. disclosed its results for the first quarter of 2015. Revenue totaled \$506.1 million, a 5.1 percent increase over revenue of \$481.7 million in the year ago period. Operating income was \$101.9 million compared to \$99.9 million in the first quarter of 2014. Adjusted EBITDA in the first quarter of 2015 was \$168.3 million, or 33.3 percent of revenue, compared to \$164.1 million in the prior year period. Adjusted EBITDA, a non-GAAP measure, excludes the impact of items such as acquisition-related costs.

Net income attributable to Waste Connections in the quarter was \$51.8 million, or \$0.42 per share on a diluted basis of 124.4 million shares.

Adjusted net income attributable to Waste Connections in the quarter was \$56.9 million, or \$0.46 per share, versus \$54.9 million, or \$0.44 per share, in the prior year period.

"Notably strong performance from our solid waste collection and disposal operations enabled us to exceed our margin expectations for the quarter and keep us on-track to attain our free cash flow target for the year." said Ronald J. Mittelstaedt, chief executive officer and chairman.

Mittelstaedt added, "Over the past few months, estimates for projected 2015 U.S. E&P capex spending decreased another 15 percent, to down 45 to 50 percent year over year, with a spending rebound anticipated in 2016. This more precipitous decline in drilling activity was evident in our E&P waste operations beginning in late March and will impact our higher margin E&P waste-related volumes for the remainder of the year. However, better than expected solid waste performance, improving recycled commodity values and potential acquisitions should help absorb some impact."

Lee County, Florida expands existing composting facility



The Lee County Composting Facility (LCCF) in Felda, Florida, has constructed three new tension fabric buildings as part of an expansion project that will double the operation's production capacity for recycling biosolids and yard waste. The fabric structures were designed, manufactured and installed by Legacy Building Solutions.

The fabric buildings are used to shelter material from rain and sun for roughly 30 days in the first stage of composting. Each of the three structures are large enough to accommodate six compost windrows piled 8 feet high and 16 feet wide, for a total storage capacity of 1,700 cubic yards of material per building. Equipment and material can easily enter the structure under the end walls, which offer a clearance height of 18 feet.

The LCCF site includes six other fabric structures originally constructed in 2009.

Republic Services increased net income for first quarter

Republic Services, Inc. reported net income of \$172.4 million, or \$0.49 per diluted share, for the three months ended March 31, 2015, versus \$132.5 million, or \$0.37 per diluted share, for the comparable 2014 period. The prior year's adjusted diluted earnings per share of \$0.43 excluded a remediation charge of \$0.06 per diluted share.

Earnings before interest, taxes, depreciation, depletion, amortization and accretion (EBITDA) during the three months ended March 31, 2015, was \$625.9 million, or 28.9 percent of revenue, compared to adjusted EBITDA of \$574.8 million, or 27.7 percent of revenue, for the comparable 2014 period.

Revenue for the three months ended March 31, 2015, increased to \$2,169.4 million from \$2,077.2 million for the comparable 2014 period. This growth in revenue of 4.4 percent was made up of increases in average yield of 2.1 percent, volume of 1.9 percent, and acquisitions, net of divestitures of 2.1 percent, partially offset by decreases in fuel recovery fees of 0.7 percent and recycled commodities of 1.0 percent.

Republic's board of directors declared a regular quarterly dividend of \$0.28 per share for shareholders of record on July 1, 2015. The dividend will be paid on July 15, 2015.

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Tarping Systems

by MARY M. COX

maryc@americanrecycler.com

Tarping options for trucks used in the waste industry are intended to help ensure the safety of the operator and others by containing the load, whether on the road or otherwise. In fact, laws are in place in many areas that mandate this. As a result, the market offers plenty of options that comply with these laws.

Shur-Co manufactures a number of tarping systems for the waste industry under the Donovan and Shur-Co brands. Scot Fuhrman is vice president, construction and international markets. He said, "Our product line includes systems like Sidewinder, Double Flip and 4500HD for transfer trailers and Hy-Tower, Quick Flip and OX for roll offs. As with each of these products, we've created a piece of equipment that allows drivers to effectively and efficiently secure the loads from the safety of the ground. Also, we understand the rugged environment in which trucks and trailers operate, so we design with durability, flexibility and ease of maintenance in mind.

"The Donovan Sidewinder transfer trailer tarping system is just one example of that. Transfer trailers are over 13' tall. Manual covering is time consuming and extremely dangerous. With the Sidewinder, a driver can completely cover a 53' long trailer in 17 seconds by standing safely on the ground and flipping a switch. Transfer trailers flex as they are loaded and unloaded. The Sidewinder design allows the tarp system to flex along with the trailer, avoiding damage and ensuring consistent, reliable operation.

This is why Sidewinder is the most popular flip lid covering system for transfer trailers and has been for over 15 years."

Fuhrman noted how haulers typically cover their trailers by hand or by using a ground operated manual crank side roll tarp. Besides being physically demanding and dangerous, either method is very time consuming.

"Using Sidewinder allows an operator to both uncover and cover in 34 seconds. Hand tarping or side roll

tarping can take up to 15 minutes or more. If a trailer is hauling 5 or 6 loads a day, the time saved with a Sidewinder will translate to extra loads. It isn't hard to see that a quick ROI is attainable. As a result, we've sold thousands of Sidewinders throughout North and South America, Europe and elsewhere since they entered the market," Fuhrman stated.

Pulltarps offers a full line of tarping

solutions for the waste, recycling, construction and landscape industries. The product line includes manual, automatic arm and front to back systems, as well hydraulic towers. Pulltarps is a family business, founded in 1989 by Lynn Chenowth, who also founded Chenowth Racing Products. "We invest in state of the art technologies and all of our products are manufactured in-

house so we can offer superior products and customize easily," said Lili McFarland, director of marketing and business development.

The firm's automatic tower includes super heavy duty mesh and the product is a fast growing favorite. It adjusts from 72" lowered to 120" when fully extended and includes everything necessary for instal-

lation along with a self-contained hydraulic power pack and 102" wide housing. Made with a durable 2" x 4 3/16" wall, rectangular steel tube frame that is powder coated, the fixed cylinder eliminates hose movement and wear. It is combined with Pulltarps' single spring arm system – also popular with large volume waste and scrap trailers.

The manual tower system is available in an electric arm style or in spring-loaded, pull-style housing. The



Shur-Co, LLC

heavy duty 12 gauge steel wind guard housing comes complete with an external ratchet assembly. With the tower fully raised, the tarp is pulled out to cover the load and secured to the back of the bin. The tower is then lowered pulling the tarp down over the front of the bin. All system tarps can be easily reordered by referencing the identification data permanently marked on each

McFarland explained, "Whether related to containment laws, safety regulations or other aspects, our designs are continually improved, based on customer feedback. Our relationships with customers don't end after the sale - they've just begun. When choosing a tarping system, consider: Is it a quality product and how long will it last? Is it simple to install? How is the service after the sale? How long will it take to order replacement parts? Is this the best solution for my application? After all, safety, ease of use and faster tarping means more productivity and a better bottom line."

includes everything Kaplan Tarps manufactures necessary for instal-replacement tarps for all the major sys-

tems – side rolls tarps, drag rags, diaper tarps, hand tarps, custom tarps and they also stock an extensive inventory of replacement tarps in common sizes. The firm offers products for the waste, transportation and aerospace industries. "We also offer upgraded quality on tarps, along with installation and See TARPING SYSTEMS, Page B5

Manufacturer List

AAA Tarps Aaron Earnhardt 866-840-1354 www.aaatarps.com

Aero Industries Jeff Boyd 800-535-9545

www.aeroindustries.com

Harp's Tarps John Beule 800-282-4277 www.harpstarps.com

Kaplan Tarps Nick Kaplan 800-464-3042 www.kaplantarps.com

Mountain Tarp Chris Nicolazzo 800-248-7717 www.mountaintarp.com

Pulltarps Manufacturing Lili McFarland 800-368-3075 www.pulltarps.com

Roll-Rite, LLC Erl Henry 800-297-9905 www.rollrite.com

Shur-Co, LLC David Hooks 800-327-9287 www.donovan-ent.com

Tarparmor Shannon Harrop 800-636-1975 www.tarparmor.com

Tarping Systems Inc.
Jason Brookshire
888-838-3229
www.dumptrucksystems.com

Tarps and Beyond Brenda Martin 800-441-8277

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Tarping systems Continued from Page B4

parts for systems. Some of our most popular products are heavy duty expandable tarps, 22 oz. side roll and roll off tarps. We also custom manufacture products to client specs," said owner, Nick Kaplan.

Kaplan added, "We're always working hard to develop even lighter, yet wear-resistant material for our tarps, so that our customers can get the most life out of a product that takes intense punish-

ment. We also push to improve the ease of use and safety of our products and manufacture items that customers will return to for quality and durability. Our customer service is the best in the business and I believe that is part of the reason we're now celebrating our 100th year in business. Looking ahead,



Kaplan Tarps

we notice that more and more companies are making operator safety their number one priority. With the rising cost of insurance, owners are seeing the value in a well-built tarp system — one that can be operated safely by a driver, keeping them out of harm's way."

EPA fines Clean Harbors for violations

The U.S. Environmental Protection Agency (EPA) recently issued a consent agreement and final order to Clean Harbors Deer Park, LLC, in La Porte, Texas. The company violated laws under the Resource Conservation and Recovery Act (RCRA) related to the storage and handling of hazardous waste. The company will pay a \$22,400 civil penalty and is required to take steps to protect the local community from health and

The U.S. Environmental Protection environmental risks associated with hazncy (EPA) recently issued a consent ardous waste.

An EPA inspector discovered that Clean Harbors failed to properly label hazardous containers, clean multiple spills from the container holding area and meet secondary containment requirements.

RCRA is the federal law governing the treatment, storage and disposal of hazardous waste.

Britain moves to make food waste disposal illegal

Companies and organizations that routinely produce food waste should be compelled by law to make arrangements to recycle it, as Britain's increasingly full landfill sites reach crisis point.

An environmentally-friendly commercial waste and management company says that far too much organic waste still ends up in the UK's hard-pushed landfill sites, when they should be aiming for a zero waste economy instead of allowing it to produce harmful greenhouse gasses.

While Scotland has taken steps to ensure that businesses recycle their waste wherever possible, the rest of the UK is lagging far behind, the BigGreen.co.uk company said. It could be time to follow the California model where all producers of organic waste become responsible for their recycling.

"It's a well-known statistic that British homes throw out seven million tons of food every year," said BigGreen.co.uk spokesperson Mark Hall, "But the shocking truth is that companies in the UK do exactly the same. Another seven million tons, and that is nothing but a national embarrassment."

According to BigGreen.co.uk, the biggest culprits when it comes to food waste are:

- •Food processing industry
- •Waste from supermarkets and shops
- •Restaurants
- Hospitals
- •Schools
- •Prisons and other institutions
- •Workplace cafeterias and canteens

Hall points to new regulations in California which came into force last year.

California's massive economy is comparable in size to Britain's, and Assembly Bill 1826 requires all commercial generators of food waste to have it composted or transformed to energy via anaerobic digestion.

The motivation behind the California law is the same as that in the UK: Diverting perfectly good recyclable waste from landfill, and making arrangements for its future use.

All companies and organizations have to do is to make an arrangement with their current waste management company to collect organic waste separately. Most of these companies will even provide appropriate receptacles free-of-charge, and collect them frequently enough so that food waste is not left on the premises any longer than is necessary. Ultimately, it's down to waste companies to adapt their practices to enable greener collections and better recycling.

"Anaerobic digestion and composting are preferred outcomes for food waste, as rotting food left in landfill releases methane, which is one of the more damaging greenhouse gasses," said Hall, "So the sooner companies get round to recycling organic waste, the better."

BigGreen.co.uk notes that the biggest obstacle to the California model is what one local official called the "knee-jerk reaction" to new work practices. While many people are great with recycling every last scrap of paper and empty drinks can, we're not so good at accepting we need to do the same with food waste, it appears.



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The body is constructed of heavy structural steel. Hardened and ground cutter disks and spacers ride on two heavy duty parallel hex shafts.



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The Spaleck Flip-Flow Screen Elastica is the key to recovering the very last resources from the waste material.

The combination of an upper and lower deck – with the tension shaft screen below and the 3D recyclable material screen above – loosens up the recycling material. All of this is available in mobile form for even more flexible application possibilities.

The discharge-side has a lower angle and a slighter amplitude keeping the material closer to the screening-mats allowing a high grading screening of near-mesh material without clogging.

New York City shoots for zero waste to landfills

The de Blasio administration released "One New York: The Plan for a Strong and Just City," a comprehensive plan for a sustainable city for New Yorkers that addresses social, economic and environmental challenges.

OneNYC sets measurable goals for tackling these challenges in the coming years – including a zero waste to landfill goal by 2030.

"Environmental and economic sustainability must go hand in hand – and OneNYC is the blueprint to ensure they do," said Mayor de Blasio. "Today, we are laying out specific goals to make sure that as we build a stronger, more sustainable, and more resilient city, we are also creating a more equitable one. From our unprecedented goal of lifting 800,000 New Yorkers out of poverty, to sweeping environmental initiatives such as Zero Waste, the cleanest air of any large city, and a dramatic reduction in emissions, this is a bold and ambitious plan – and New York City requires nothing less."

OneNYC lays out a series of specific targets and initiatives to prepare New York City for the future generations, including:

•Making New York City home to 4.9 million jobs by 2040.

•Creating 240,000 new housing units by 2025, and an additional 250,000 to 300,000 by 2040.

•Sending zero waste to landfills and reducing waste disposal by 90 percent relative to 2005 levels, by 2030.

The plan - a 332-page document - is divided into four visions for a stronger, more equitable, more sustainable and more resilient New York City, and includes over 200 new initiatives, with over 80 specific new metrics and targets.

OneNYC will ensure that New York City is the most sustainable big city in the world and a global leader in the fight against climate change:

"The city council is committed to making New York a more sustainable city for all New Yorkers," said Speaker Melissa Mark-Viverito. "From passing legislation to reduce greenhouse gas emissions by 80 percent by 2050 to encouraging low-carbon transportation options and increasing energy efficiencies, the city council is proud of its work to strengthen New York City and I thank the de Blasio Administration for their shared efforts to preserve and protect New York City for future generations."



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Landfill capacity Continued from Page B1

long as neighboring counties continue to allow importation of Los Angeles County waste."

Morell said the district's largest material recovery facility; the Puente Hills MRF has a contract through the middle of 2016, where they pay about \$35 to \$40 dollars a ton to transport and dispose of residual waste. The cost for the waste-to-rail system was estimated at \$450 million for the entire system including the intermodal rail facility and the remote landfill.

"When we started to look at waste-byrail 20 years ago, we had a lot of trash and not much recovery," Morell reported. "Now we have 60 percent recovery and the county produces about 40 percent less waste than 10 years ago. More recovered waste like paper, cardboard and plastic is being sent by container to Asia. What's being mined out of the waste stream is being sold as a commodity and no longer being landfilled. That extends the life of the landfill and interestingly makes the competition fiercer. Now the State of California is looking at removing more organics and mandating 75 percent recycling from the waste stream."

To further explore landfill capacity issues, we spoke with Pat McLaughlin, director of the King County Solid Waste District (KCSWD). With a total area over 2,300 square miles, King County, Washington has nearly twice the land area as the state of Rhode Island and a population of about two million. The county seat is Seattle, the state's largest city.

"At the moment we have estimated capacity through 2030 under our planned and improvement activities," reported McLaughlin. "And we believe we can extend that beyond 2030 through additional development activities and policy changes

haul it by truck than by train. That's for as in our region. We presently have a recycling rate of about 53 percent, but we think we can do much better and have set our sights on a 70 percent rate by 2020. We are in discussions with our entire region on how we're going to achieve that and what the cost of failure is, both environmentally and economically. Our current plan calls for waste exports as our next solution, however, we are in the midst of developing longer term strategies and evaluating various alternative disposal options."

KCSWD is custodian of nine different landfills that were closed some time ago. It has been using the Cedar Hill Regional Landfill since about 1965, and it is the only active and inarguably the last landfill in King County.

McLaughlin said that extending the life of his landfill represents the lowest cost and most environmentally responsible means of disposal. The longer he can extend it, the more time he has to evaluate other disposal options, whether exporting or building new waste processing systems within the county. His primary fear is not achieving higher diversion rate targets. He is banking on diversion success, but failure will force alternative disposal options, inevitably more expensive and faced much sooner than anticipated.

"Waste-to-energy is among the options that we're going to be actively evaluating," said McLaughlin. "In fact, over the next several months we'll be choosing a consultant to lead us through an invitation to industry to look at our waste stream and demonstrate technologies. We are really interested in understanding how various disposal technologies may play a part in our future processing. Even though we are located an environmentally sensitive area, we must be bold in our pursuit of our environmental



ersonnel collect plastic film from commercial waste on a tipping floor of the Puente Hills materials recovery facility prior to additional automated sorting. PHOTO COURTESY OF THE SANITATION DISTRICTS OF LOS ANGELES COUNTY

goals. It's our responsibility to evaluate all the options and to do so in a manner that both addresses the regional values and concerns, but also informs our partners, residents and businesses on the various costs and benefits of all the options. Even if we export waste, we still have to be concerned with what happens to it. It's our waste and we want to have a high degree of ownership in how it's processed if it leaves our county."

King County has a range of intermodal transport options. It has property with deep water access, and can ship by rail or highway. At this time the county has not considered any remote sites for export.

"For the first 15 years we're fairly solid with landfill capacity and I think we can go well beyond that. We have inter-local agreements with our cities that go through the year 2040 and it's my hope that we can secure landfill capacity for the duration of those agreements.'

McLaughlin is looking at three areas of his business model - waste prevention, resource recovery and waste disposal. KCSWD has found an ability to recover a substantial amount of resources from the waste stream. Last year it initiated a resource recovery pilot program at one of their transfer stations. By focusing on clean wood, cardboard and metals KCSWD increased the recycling rate at one location by 250 percent. "We see that as a growing part of our business model as we're trying to extend the life of the landfill," said McLaughlin. "In that pilot program there was a modest economic gain in the value of the recycled materials, but looking at the avoided costs of transport and landfilling, and the environmental gains, it's definitely the right thing to do. It's making a substantial offset to the cost of disposal.'





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