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NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

## FOCUS: Rubber

### Stable rubber market attracts new plant



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## Once maligned methane gas now an asset for energy production



Waste Management Inc. currently has 137 LFG projects generating 682 MW of electricity.

PHOTO COURTESY OF WASTE MANAGEMENT INC.

by MIKE BRESLIN

mbreslin@americanrecycler.com

Today, recycling methane gas is not only a growing source of energy generation, but also an effective means of preventing greenhouse gas from polluting the atmosphere and turning it into a valuable revenue stream. Reducing methane is also a hot issue among environmental and climate change advocates, relative to lowering greenhouse gas emissions.

To that end, in June 2013, president Obama issued his broad-based Climate Action Plan, announcing a series of executive actions to reduce carbon pollution and lead international efforts to address climate change.

Earlier this year, a key part of that plan was released with the administration's Strategy to Reduce Methane Emissions. This Strategy summarizes sources of methane emissions, commits to new steps to cut emissions and outlines efforts to improve emission measurements.

The administration wants to further cut methane emissions from landfills, oil, and gas systems, coal mining and

agriculture through cost-effective voluntary actions and new federally regulated standards.

Followed by carbon dioxide, methane (also called marsh gas) is the second most prevalent greenhouse gas emitted in the U.S. from human activities. In 2012, methane represented about nine percent of all U.S. greenhouse gas emissions from human activities. Globally over 60 percent of total methane emissions come from human activities with the balance generated from a number of natural sources such as wetlands.

The big problem with methane – it is more efficient at trapping radiation than carbon dioxide. According to the U.S. EPA, pound for pound, the comparative impact of methane on climate change is over 20 times greater than carbon dioxide over a 100 year period.

Ironically, since 1990, methane pollution in the U.S. has actually decreased by 11 percent, even as activities that produce methane have increased. However, methane pollution is projected to increase to a level equivalent to over 620 million tons of

carbon dioxide pollution in 2030 without additional action to reduce emissions.

Two sources of methane emissions that hold the greatest potential for recycling are landfill gas which accounts for 18 percent of all U.S. methane emissions and natural gas and petroleum production, accounting for 29 percent. More difficult to recycle are coal gas from mining, animal manure, enteric fermentation (intestinally produced by humans and animals) and miscellaneous sources, which account for the balance of methane emissions.

This summer the EPA will propose updated standards to reduce methane from new landfills and gather public comment on whether to update standards for existing landfills. As we know, landfill gas (LFG) is created as solid waste decomposes in a landfill. This gas consists of about 50 percent methane (the primary component of natural gas), about 50 percent carbon dioxide and small amounts of organic compounds.

Putting LFG to use can support local economies with sources of clean energy that generates revenue, spurs

investment and jobs, improves safety and leads to cleaner air. According to the U.S. EPA, there were 636 operational LFG energy projects in the U.S. As of January 2014, approximately 450 landfills are good candidates for LFG projects. Of the approximately 2,400 currently operating or recently closed municipal solid waste (MSW) landfills in the U.S., more than 580 have LFG utilization projects. EPA also estimates that approximately 450 additional MSW landfills could turn their gas into energy, producing enough electricity to power nearly a half-million homes.

The country's largest operator of LFG-to-energy projects is Waste Management Inc. (WM), an environmental solutions provider serving more than 20 million customers in North America.

Sue Briggum, WM's vice president of federal affairs commented on the administration's new plan. "When the methane strategy came out there wasn't much that was a surprise to us. One thing they mentioned, of course, was the fact they are hoping to update the standards for methane

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# NH the Beautiful donates bags for litter clean up



Pictured (l to r): Dave Rodrigue, NH DOT assistant director of operations, Jim Hewitt, NH DOT systems engineer, Patrick McKenna, NH DOT deputy commissioner, John Dumais, NH the Beautiful chairman, Larry Melanson, NH the Beautiful board member and Mike Durfor, executive director NRRA.

New Hampshire the Beautiful, Inc. presented the Governor and Council with their annual donation of blue bags for the Litter Free Highway Program. The bags were delivered to the NH Department of Transportation (DOT) in Concord to be distributed to other DOT districts across the state.

The New Hampshire DOT's Sponsor-A-Highway program, in cooperation with New Hampshire the Beautiful, coordinates volunteers to remove litter from portions of the state's highway system. The New Hampshire legislature established the program through RSA 230:83 and administrative rules were adopted on April 1, 1994. Volunteer groups are asked to sponsor

both sides of a two mile section of highway and agree to a two year commitment; and volunteers are asked to remove litter four times between April and November. In 2013, 13,800 bags of litter were removed equaling approximately 35 tons or 46,000 cubic feet of litter. Since 2007, New Hampshire the Beautiful has donated 282,450 bags to the NH DOT for litter clean up efforts at a value of over \$28,000.

In addition to the donation of bags to NH DOT, NH the Beautiful also provides bags to communities across the state. Since 2007, a total of 565,650 bags (at a value of over \$ 56,000) have been donated for litter clean up efforts in New Hampshire.

# Republic implements new cutting-edge technologies

Republic Services has dedicated the Conover Recycling Facility in Catawba County, which will introduce or expand single-stream recycling capabilities throughout Alamance, Catawba, Guilford, Montgomery, Richmond and Stanly counties in North Carolina. The expanded, highly-advanced facility has the capacity to process more than 25 tons of mixed recyclables per hour, or 400 tons per day.

The Conover Recycling Facility accepts and processes all plastics marked 1 through 7, paper products, cardboard, glass, aluminum and other materials. The facility utilizes several advanced technologies to include a touch-screen Human Machine Interface control, Supervisory Control and Data Acquisition monitoring, and sorting technologies that maximize sorting efficiencies. The facility has the

capacity to sort and process incoming materials, and ship finished commodities to domestic and international markets.

There are approximately 43 full-time employees working at the Conover Recycling Facility. In addition, the facility offers a unique Learning Center for the community to visit, experience a rare, up-close view of the recycling process and learn more about recycling and sustainability issues.

Republic Services employs more than 200 personnel, and serves more than 94,000 residential, 7,400 commercial and 1,400 industrial customers throughout central and western North Carolina. The Company operates four hauling divisions, three transfer stations, one landfill, and one recycling facility in the area.

# Veolia North America noted for Environmental excellence

Veolia North America disclosed that four of its U.S. facilities have been recognized for environmental excellence. Sites in Philadelphia and Grand Rapids as well as two locations in Boston, have achieved certification to the International Organization for Standardization (ISO) 14001 Environmental Management System Standard.

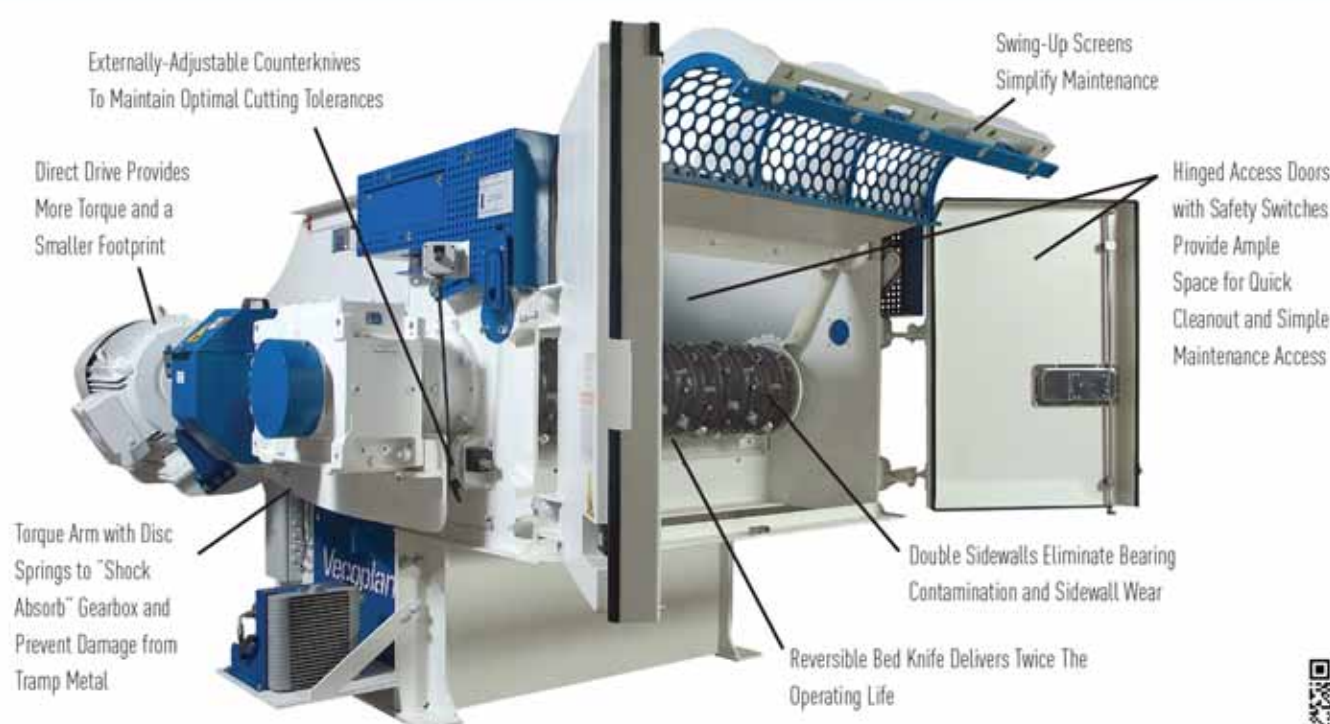
•Boston, Massachusetts – Helping to support the city of Boston in its carbon reduction goals, the Kneeland Street Plant facility provides thermal energy to downtown Boston buildings producing 1,275,000 lbs. of steam per hour. In Boston and Cambridge, Massachusetts,

Veolia's district energy and cogeneration operations help the city avoid emissions of approximately 475,000 tons.

•Philadelphia, Pennsylvania – The Grays Ferry/Schuylkill Station is a 163-MW cogeneration facility. By producing steam and electricity simultaneously, the plant avoids the emission of approximately 430,000 metric tons annually.

•Grand Rapids, Michigan – Producing 450,000 lbs. per hour of steam, the Grand Rapids plant serves over 100 customers, ensuring consistent energy supply while reducing impact to the environment.

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# Farmer Brothers strives for zero landfill status

Farmer Bros. Co. has paired with GreenDrop Recycling Stations to handle the diversion of its recyclable and compostable waste from landfills in Oregon.

Farmer Brothers' ultimate objective is to reach 100 percent landfill diversion by the year 2015, prolonging the lifecycle of resources while reducing greenhouse gas emissions.

The GreenDrop Recycling Station was designed through multi-year efforts of the Portland Trail Blazers head office and the newly named Moda Center. The arena's landfill diversion rate increased from 38 percent in 2007 to over 90 percent in 2013, in part by replacing old-style garbage cans with GreenDrop Recycling Stations. GreenDrop Recycling Stations reduce landfill contributions by enabling Farmer Brothers employees to easily self-sort recyclable and compostable items.

In addition to the GreenDrop Recycling Stations diverting the composting and recycling waste streams, Farmer Brothers has developed programs to recycle an estimated 1,500,000 pounds of packaging machine waste from landfills each year. Farmer Brothers receives over 500,000 lbs. of fiber bags per year used for shipping green coffee. These bags are now being repurposed for weed control in reclamation projects, tools for local farmers harvesting fruits and vegetables, bag-and-burlap for tree plantings and much more. Most of these bags were once bound for landfills, but today there is a waiting list to extend the useful life of these bags. Another success has been taking at least 15,000 lbs. per month of chaff from their Portland facility left over from coffee processing and selling this material to companies producing natural fertilizers.



# Rochester Hills increases recycling by 323 percent

The City of Rochester Hills, Michigan has celebrated five successful years of partnership with Recyclebank. The city also renewed the relationship for an additional five years which will allow it to continue offering residents Recyclebank's recycling incentives program. Rochester Hills was the first community in the Midwest to offer Recyclebank's program in an effort to help create a more sustainable community.

Since 2008, Recyclebank, in partnership with Republic Services, and Rochester Hills have worked together to reward residents for taking more sustainable actions, like recycling, with

discounts and deals at local and national businesses. At the time, Rochester Hills also expanded its household recycling program and implemented single stream collection, which allows residents to put all types of recyclable materials into a single bin. These recycling innovations, in concert with the recycling incentives program, led to a 323 percent increase in the pounds recycled since 2008.

Since 2009, residents have increased recycling to an average rate of 670 pounds per household per year with a 27 percent diversion rate. Overall, Rochester Hills has collected nearly

22 thousand incremental recycling tons since April 2009. Through its program, Recyclebank has also helped save residents money and stimulate the local economy. A combination of dollars saved by residents and dollars spent at local businesses as a result of reward redemption adds up to more than \$1.9 million since January 2011.

Rochester Hills schools have been longtime participants in Recyclebank's Green Schools Program. Eight community schools have participated since the program's inception. Green Schools awards grant money to schools to fund unique student projects that will green

their classroom and community, such as a community garden or the implementation of in-school recycling efforts. This year, two Rochester Hills schools participated in the Green Schools Program. Both Meadow Brook Elementary and University Hills Elementary proposed building community vegetable and flower gardens to inspire a love of nature among students and help educate them on plants native to Michigan. Meadow Brook also proposed the use of rain barrels to water the garden and teach students about water conservation.

# National Coca-Cola bin grant program awards recycling bins to 51 communities and colleges

Colleges, K-12 schools, nonprofits and local governments will now be better able to advance their recycling efforts thanks to a significant grant made possible by The Coca-Cola Foundation. The winning communities, schools, universities and organizations will receive nearly 4,500 recycling bins. Over 65 percent of the bins are designed specifically for permanent, ongoing use in heavily-trafficked public spaces and events, with the remaining 35 percent to be used by students in collegiate residence halls.

In its 9th year, the Coca-Cola/Keep America Beautiful Recycling Bin Grant Program continues to recognize the significant need for public space recycling bins with over 1,027 applications received. Overall, recycling bins will be used for special event recycling and placed at athletic fields, streetscapes, parks, K-12 schools and local government facilities.

Additionally, Coca-Cola has expanded its investment in the bin grant program to include a specific focus on 2 year community colleges, with 15 recycling bin grants going to 2 year colleges and 28 going to traditional 4 year colleges and universities.

As public space recycling becomes a more pressing need, communities are seeking to increase the availability of recycling bins at local libraries, hometown art or music festivals, or simply at any on-the-go location. All of these locations are eligible to receive bins through the Coca-Cola/KAB Recycling Bin Grant Program.

Recipients were chosen by Keep America Beautiful based on criteria including 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, a membership organization serving campus recycling managers.

The Coca-Cola/KAB Recycling Bin Grant Program awards recycling bins directly to recipients and leverages volume buying discounts. Since 2007, the program has placed more than 35,000 recycling bins in over 500 communities across the U.S.

For a full list of recipients and more information, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

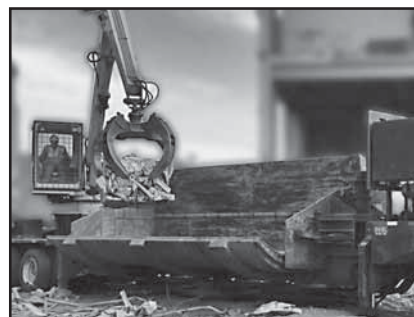
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# Methane

■Continued from Page 1

releases at landfills. We have been working with EPA for over a year on that proposal. EPA is getting down to the final details in terms of making sure that strategy reflects the best technology for assessment of methane from landfills and the best control technology. So we felt very comfortable with that. We were also pleased to see the administration cite with favor its Landfill Methane Outreach Program (LMOP), which encourages the development of LFG to energy projects across the country."

Susan Robinson, WM's director of public affairs, added, "At most of our landfills we are using recovered methane to create electricity. But we are also using our methane to create renewable natural gas (RNG) to fuel our trucks. At our Altamont Landfill in Livermore, California we make approximately 13,000 gallons of renewable, liquefied natural gas (LNG) a day, which powers nearly 300 of our trucks in California, about one-third of our state fleet. That reduces our greenhouse gas emissions by over 90 percent compared to the diesel trucks they replace. Ninety percent of Waste Management's new truck purchases each year will be natural gas (NG) vehicles. Currently over 3,100 of our nearly 18,000 heavy duty vehicles are powered by NG. We are now building another facility in Illinois that will also make renewable natural gas from methane, and we have begun construction of a plant in Oklahoma that will convert landfill methane to renewable diesel fuel. So we are taking advantage of these technologies to create both renewable electricity and fuels."

Another way to curb LFG emissions is an avoidance strategy that reduces the volume of organic material going to landfills and recycles it through anaerobic digestion to produce both biogas to power electric generation and compost, or make compost alone for fertilizer.

Sue Briggum expanded on WM's efforts to recycle methane from organics. "We have 137 LFG projects generating 682 megawatts of electricity. The only reason we would flare landfill gas is as a control in the beginning and at the end of the landfill life cycle when there is too little gas being emitted to support a gas collection system.

As a general matter, our landfill gas collection systems are extremely efficient and do an excellent job of capturing the methane. All of this is part of an air permit that makes sure you have best controls sufficient both to meet both Clean Air Act and Resource Conservation and Recovery Act (RCRA) standards for control of methane."

Robinson explained, "We also have a team of folks dedicated to our organic recycling projects. Last year we diverted about 2.5 million tons of organic material and have about 40 compost facilities in the U.S. and Canada to specifically manage various types of organics whether yard waste or food waste.

In a lot of communities across the country we've diverted most of the yard waste from landfills and that is primarily going to composting. Composting handles a lot of volume very efficiently so it's a great solution.

Our customers are very focused on looking for solutions for recycling food waste. In order to meet their aggressive diversion goals from a municipal per-

spective, we have been developing both residential and commercial solutions. We have also invested in our recently patented CORE technology, for commercial food waste, where we process commercial food waste for anaerobic digestion at existing wastewater treatment facilities," Robinson concluded.

Nearly one-third of methane emissions comes from oil and gas drilling and production operations, and especially from leaking natural gas pipeline infrastructure. The boom in shale gas production led by new applications of hydraulic fracturing and horizontal drilling technology has led to major increases in U.S. reserves of natural gas. Building on success in reducing methane emissions from the oil and gas sector through voluntary programs and targeted regulations, the Administration plans to take new actions to encourage additional cost-effective reductions.

One company, Primus Green Energy, based in Hillsborough, New Jersey, claims to have an innovative solution; in essence a process that captures natural gas and methane leaking or being flared into the air and recycles it into liquid fuel. Primus has developed a highly efficient thermochemical gas-to-liquids (GTL) conversion process which produces gasoline, jet fuel or diesel. These fuels are usable directly in gasoline, diesel or jet fuel engines without any modification or adjustment.

George E. Boyajian, PhD and vice president of business development at Primus explained, "Whether it's Obama's, or anybody's strategy to reduce methane emissions, you have to pipe the natural gas coming out of the well to the market. At every step along that way from the well-head to where

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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  
**MARK HENRICKS**  
mhenricks@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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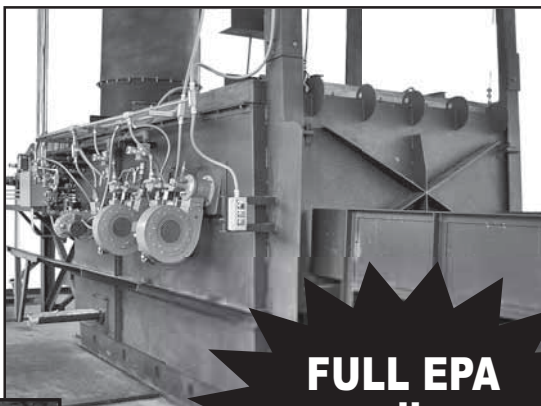
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## Events Calendar

### July 20th-22nd

**Agricultural Plastics Recycling Conference & Trade Show.** Marco Island Marriott Beach Resort, Golf Club & Spa in Marco Island, Florida. 800-441-7949 • [www.aprc2014.com](http://www.aprc2014.com)

### July 29th-31st

**2014 WV Solid Waste, Sustainability, and STEM SUMMER WORKSHOP.** NASA IV&V Facility, Fairmont, West Virginia. 304-825-1976 • [www.marioncoswa.org](http://www.marioncoswa.org)

### August 26th-28th

**WASTECON/SWANA.** Gaylord Texan, Dallas, Texas. 800-467-9262 • [www.swana.org](http://www.swana.org)

### September 23rd-25th

**Waste Conversion Tech Conference & Tradeshow.** The Westin Downtown Denver, Denver, Colorado. 800-441-7949 • [www.waste-to-fuels.org](http://www.waste-to-fuels.org)

### September 24th-26th

**19th International Congress for Battery Recycling ICBR 2014.** Hamburg, Germany. 41 62 785 10 00 • [www.icm.ch](http://www.icm.ch)

### October 19th-21st

**WV Educational Conference on Litter Control & Solid Waste Management.** Huntington, West Virginia. 304-573-5194 • [www.awvswa.com](http://www.awvswa.com)

### October 22nd-25th

**71st Annual ARA Convention & Expo.** Gaylord Opryland Resort & Convention Center, Nashville, Tennessee. 888-385-1005 • [www.araexpo.org](http://www.araexpo.org)

### October 29th-November 1st

**The 9th Eco Expo Asia.** AsiaWorld Expo, Hong Kong, China. 852-1830-668 • [www.ecoexpoasia.com](http://www.ecoexpoasia.com)



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# New Mexico Recycling Coalition awards grants

As part of its plan to work with local businesses to promote and increase food waste diversion, The New Mexico Recycling Coalition (NMRC) awarded \$18,750 to 3 entities working to combat food waste in New Mexico.

Food waste is the single largest type of material entering landfills. Americans throw away 40 percent of their food, yet nearly 15 percent of Americans don't know where their next meal will come from. With proper management, food waste can be channeled into the desired diversion hierarchy to first feed people, secondly feed animals and finally collected for compost to enrich soils and therefore grow more food.

"This funding will help support food-generating businesses and events to expand their options for wise food scrap management, thus reducing the amount of this material sent to the landfill," noted NMRC's executive director, English Bird. "The next phase of this program will be to develop resources and actively educate food handling entities on best practices of food scrap management – so we can see more donations to those in need and increase food scrap composting."

Soilutions, located in Albuquerque, will receive \$8,908 to purchase collection equipment in order to expand their services. Soilutions is a full service company providing both pick up and processing of food scraps. They began collecting food waste from large and small businesses in 2008, and in 2013 collected and composted 2120 tons of food waste from Albuquerque, Rio Rancho and Bernalillo food waste generators.

Reunity Resources out of Santa Fe recently secured a public-private partnership with the City of Santa Fe to launch a pilot food scrap collections program last month. They will receive \$6,305 for collections handling equipment to assist with their efforts. In its first month of operations this pilot program secured 9 clients and diverted 10.5 tons of food scrap from the landfill.

The third grantee is Knowaste, an Albuquerque-based organization that creates and manages Resource Recovery Stations for public events, which includes food scraps collections. NMRC awarded Knowaste \$3,537 for public collection stations. Not only do the stations divert material from landfills, they also serve as highly visible educational tools to help the public understand what is in the waste stream, what can be recycled and what can be composted. With volunteers and the Resource Recovery Stations, Knowaste sees diversion rates of approximately 78 percent at its events.

NMRC secured program funding through a generous \$50,000 grant from The Walmart Foundation's State Giving Program. Aside from sub-awarding monies to the businesses mentioned above, the project, entitled "Reducing Food Waste in New Mexico: Feeding the Hungry, Building Our Soils and Diverting Waste with Food Management Best Practices," will provide training, resources and market development support to implement food waste reduction, donation and diversion programs.

# EPA agreement with Pfizer will fund recycling program

The U. S. Environmental Protection Agency (EPA) has settled a case with Pfizer Pharmaceuticals LLC for violations of the Clean Air Act at the company's pharmaceutical manufacturing plant, in Barceloneta, Puerto Rico. Pfizer did not have the proper air pollution controls to prevent leaks of methylene chloride gas used in the manufacturing process. In addition to coming into compliance with the leak detection requirements, Pfizer has agreed to spend \$410,000 to expand the municipal recycling program in Barceloneta.

Under the Clean Air Act, Pfizer's chemical and pharmaceutical manufacturing plant is subject to federal leak detection and repair regulations. In addition to not having air pollution controls to prevent leaks of methylene chloride gas used in the manufacturing process, the company failed to test its air pollution control equipment.

The EPA worked with Pfizer over the past several years to bring the facility into

compliance with federal regulations. As a result, the plant is currently in compliance with air pollution control requirements in the Clean Air Act. The company will also pay a civil penalty of \$318,000.

Under the agreement, Pfizer will purchase new recycling containers, equipment and vehicles necessary to enhance the recycling program in Barceloneta. Municipal recycling programs are essential to the protection of people's health and the environment and also reduce greenhouse gas emissions, conserve energy and create jobs. Barceloneta has a population of approximately 25,000 and is located in the environmentally sensitive Karst region. In 2012, the municipality reported that it had disposed 9,474 tons of solid waste in landfills and had recycled 252 tons of solid waste, which translates into a recycling rate of only 3 percent. With the additional new equipment, the program will be expanded and the recycling rate will increase.

# Methane

Continued from Page 4



Primus Green Energy's 100,000 gallon-per-year continuous production demonstration plant Hillsborough, New Jersey. It will convert natural gas directly into 93-octane gasoline. Primus expects to incorporate a jet fuel production line in 2014, followed by a biomass gasification unit to convert biomass directly into fuels.

the gas is consumed there is a chance for leaks to occur. What our system does is take the natural gas right next to the well-head and converts it into a liquid fuel. That enables us to eliminate all the leaks downstream from the well-head. If we put our plant right at the well site we can take the natural gas and make it into a liquid product so methane could not escape into the atmosphere.

"Biogas or landfill gas also has methane in it. Not as concentrated as natural gas, but I think a combination of landfill gas and natural gas would make a very good combination for us. We are looking at projects in several parts of the country to take landfill gas and turn it into liquid fuels.

"The other way we help is not only on the methane side, but is also on the carbon dioxide side. If you are flaring the gas at the well-head, or at a landfill, or if your flaring is just so the gas does not build up and explode, we can turn that flare gas methane into liquid

product as well. At least we can make useful energy out of it before it goes into the atmosphere."

Boyajian noted that Primus is issuing a white paper that describes exactly the size and configuration of a system that would make about 350 to 500 barrels of liquid fuel per day out of natural gas from a single well at costs competitive with traditional liquid fuels. He believes that the wells in the Bakken region of North Dakota that are flaring gas could be producing liquid fuels instead of being wasted and sending methane into the air.

With oil and natural gas production and distribution accounting for nearly one-third of all U.S. methane emissions, and coal mining representing 10 percent, it appears that greater reliance on clean energy production such as wind and solar can also play a larger role in reducing methane emissions and avoiding harmful climate change.

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# EPA provides job training for pollution reduction

The U.S. Environmental Protection Agency (EPA) has selected 18 grantees for the award of approximately \$3.6 million through the Environmental Workforce Development and Job Training (EWDJT) program. The grants fund training programs in local nonprofit organizations, community colleges, cities, states, tribes, and counties that provide unemployed and underemployed, including veterans, minority, and predominately low income individuals with the comprehensive skills and certifications needed to enter full-time careers in the environmental field. The funding also supports job placement and recruitment activities. These green jobs give hope to individuals to overcome significant barriers to employment and help protect public health and the environment by providing a skilled job force to clean up contamination and build more sustainable futures for local communities.

"A key aspect of the success of the program is the partnership between grantees and the private sector to design curricula based on local markets with an eye toward hiring graduates, which is why there is a 71 percent placement rate," said Gina McCarthy, EPA Administrator. "We link our investment in communities with brownfields to enable residents from lower income communities that surround many of these sites with training opportunities."

Graduates of the program develop a comprehensive set of skills to secure full-time, sustainable employment in many areas of the environmental field and average an hourly starting wage of \$14. This has resulted in an excellent cumulative job placement rate. Program graduates obtain employment within their own communities, areas often historically affected by blight, economic disinvestment, and sites contaminated with solid and hazardous wastes. Rather than filling local environmental jobs

with professionals outside of these communities, these grants help provide an opportunity for local residents to secure careers that make a visible impact cleaning up their neighborhoods, creating a locally skilled workforce. Graduates obtain employment in fields such as: recycling, brownfields assessment and cleanup, wastewater treatment, stormwater management, emergency response, oil spill cleanup, solar installation, and superfund site remediation.

The 18 grantees are:

- Hunters Point Family; San Francisco, California.
- City of Durham, North Carolina.
- Memphis Bioworks, Tennessee.
- City of Milwaukee, Wisconsin.
- Los Angeles Conservation Corps, California.
- Cypress Mandela Training Center; Oakland, California.
- St. Nicks Alliance; Brooklyn, New York.
- Civic Works; Baltimore, Maryland.
- Community Development Corporation of Tampa, Florida.
- Limitless Vistas; New Orleans, Louisiana.
- City of Camden, Arkansas.
- Energy Coordinating Agency; Philadelphia, Pennsylvania.
- Lewis and Clark County, Montana.
- Alaska Forum
- Northstar Center for Human Development; Hartford, Connecticut.
- City of Detroit, Michigan.
- The Workplace, Inc.; Bridgeport, Connecticut.
- Mo-Kan Regional Council; St. Joseph, Missouri.

Since the EWDJT program's inception in 1998, the EPA has funded 239 job training grants totaling more than \$50 million. More than 12,800 individuals have completed training, and of those, more than 9,100 have secured employment in the environmental field.

# 'I Want To Be Recycled' campaign launched

Keep America Beautiful (KAB) and the Ad Council revealed that the City of Austin, Texas is the first city to partner in the "I Want To Be Recycled" multimedia public service advertising campaign.

The "I Want To Be Recycled" campaign aims to motivate Americans to recycle every day. Created by San Francisco-based ad agency Pereira & O'Dell, the bilingual multimedia campaign illustrates that recyclable materials can be given another life when someone chooses to recycle.

Americans recycle an average of 1.5 lbs. out of the 4.4 lbs. of trash they produce daily, which totals more than 250 million tons of trash a year. National recycling rates continue to hover at 34.5 percent, according to the Environmental Protection Agency.

The City of Austin has a goal to keep 50 percent of trash out of landfills by December 2015. City residents can make progress toward this goal by recycling 5 lbs. more each month.

To spur Austin residents into action, the City of Austin and Austin Resource Recovery partnered with KAB and the Ad Council to localize the national campaign by using television, radio, outdoor, online, social and mobile advertising across the city. In addition, the city will distribute the campaign's educational materials to schools and other civic organizations to increase awareness about the benefits of recycling.

The City of Austin and Austin Resource Recovery are working closely with Keep Austin Beautiful, the community-based affiliate of KAB, to educate and

motivate Austin residents to give their garbage another life by recycling.

On average, City of Austin residential customers recycle 46 lbs. monthly. Mayor Leffingwell and Austin Resource Recovery challenged Austinites to increase recycling by 5 lbs. each month to help reach the City's 50 percent goal by 2015.

The City of Austin is localizing the campaign with the city's branding, and the English and Spanish language campaign will direct audiences to [austinrecycles.com](http://austinrecycles.com). Here, Austinites can find tips and schedules for residential recycling and learn more about the recycling challenge. Users can also follow the national campaign at [iwanttoberecycled.org](http://iwanttoberecycled.org) or on Facebook, Twitter, YouTube and Tumblr to share their own stories and receive inspirational and educational content about recycling.

National sponsors of the "I Want To Be Recycled" campaign include Alcoa Foundation, American Chemistry Council, Anheuser-Busch, City of Austin, Institute of Scrap Recycling Industries, Nestlé Waters North America, Niagara Bottling, Unilever and Waste Management.

The "I Want To Be Recycled" campaign was launched by KAB and Ad Council in July 2013 with a series of television, radio, outdoor and digital PSAs. The Ad Council and KAB first partnered more than four decades ago in 1971, creating Iron Eyes Cody, "The Crying Indian," campaign. Launched on Earth Day in 1971, the ad emphasized the personal responsibility each American has to help protect the environment.

*Q: If an electric train is traveling north-by-northeast at 59 MPH, and the wind is blowing west at 18 MPH, which way is the smoke blowing? A: There is no smoke; it's an electric train.*

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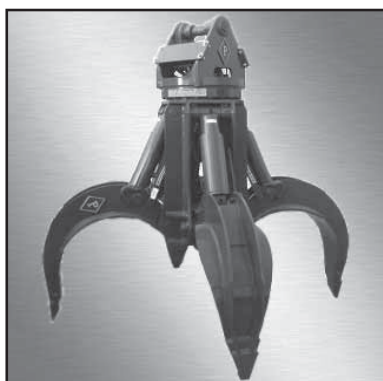
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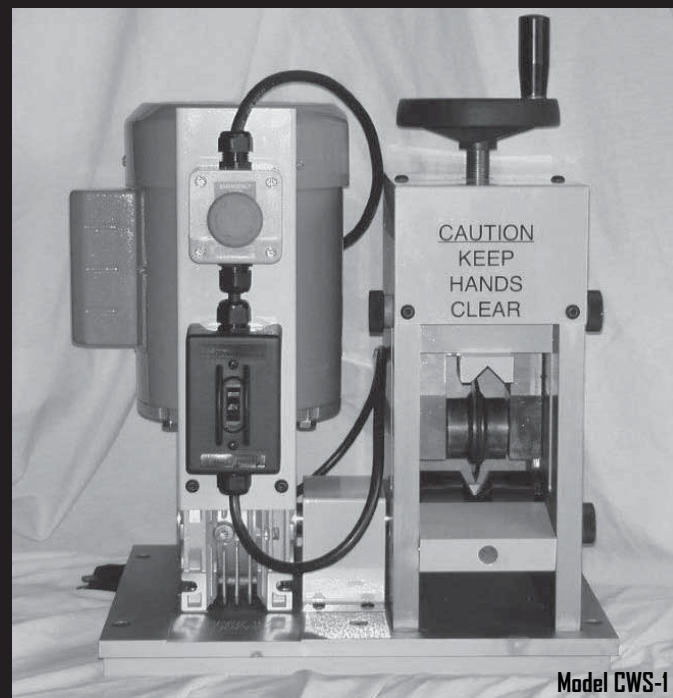
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## ALTERNATIVE ENERGY

### Eisenmann converts waste to compressed natural gas

The design and engineering phase of CR&R's anaerobic digestion project is in full swing. The planned facility in Perris, California, is permitted to process over 80,000 tons of organic waste per year in Phase 1 and expandable to process over 300,000 tons per year in 3 additional phases, making it one of the largest anaerobic digestion projects in the U.S.

Expanding on their recycling processes, CR&R will integrate the new plant into their existing operations. Feed for the new system will include green yard waste and food waste which requires a robust, flexible digestion process to ensure efficient biogas production.

Eisenmann's system is fully automated and continuously monitors and optimizes the digestion environment and feed rate. The CR&R plant features four parallel, primary digesters. Following the pre-processing stage, each individual digester vessel is automatically fed through con-

veyors and dosing bins. The digesters are equipped with a slow moving horizontal agitator to ensure proper mixing of the feedstock – maximizing exposure to biological colonies and facilitating gas release from the homogenized material. Produced biogas is stored in a flexible, double membrane gas storage roof within the post digester.

The biogas is directed from the post digester to an upgrading unit provided by Greenlane Biogas Ltd. Their upgrading process uses water to make biogas interchangeable with conventional natural gas, allowing CR&R to fuel their fleet of collection vehicles with compressed natural gas (CNG) and to feed excess natural gas into the pipeline distribution system. Overall, the anaerobic digestion plant is projected to generate approx. 1,000,000 Diesel Gallon Equivalent (DGE) of CNG per year.

### Enerkem launches new facility

Enerkem officially inaugurated its first full scale municipal waste-to-biofuels and chemicals facility in Edmonton, Alberta Canada.

This facility, operated by Enerkem Alberta Biofuels, is among the world's first commercial facilities to be built for the production of renewable chemicals and advanced biofuels.

This industry breakthrough is a collaboration between Enerkem, the City of

Edmonton and Alberta Innovates – Energy and Environment Solutions. The facility will have a production capacity of up to 38 million liters per year and is expected to generate net economic spending in the local area of nearly \$65 million annually.

The start-up of biomethanol production will begin progressively. A module converting the biomethanol into advanced ethanol will be added by the end of 2015.

### Honeywell UOP technology powers largest biofuel facility

UOP LLC disclosed that its UOP/Eni Ecofining™ process technology is powering the largest commercial advanced biofuel facility in the U.S., capable of producing more than 130 million gallons of renewable diesel per year.

The Diamond Green Diesel facility in Norco, Louisiana, converts inedible oils and other waste feedstocks to produce high-quality renewable diesel, also known as Honeywell Green Diesel™. Unlike biodiesel, renewable diesel produced using the UOP process is chemically identical to petroleum-based diesel and can be used as a drop-in replacement in vehicles with no modifications. Renewable diesel produced using the Ecofining process also features up to an 80 percent lifecycle reduction in greenhouse gas emissions compared with diesel from petroleum.

The facility, a joint venture of Darling International Inc. and Diamond Alternative Energy, LLC, achieved all of its performance and quality targets.

"Commercial production at the Diamond Green Diesel facility is a significant milestone for the renewable energy industry," said Veronica May, vice president and general manager for Honeywell's UOP Renewable Energy and Chemicals business unit. "UOP has leveraged 100 years of refining technology to make real alternative fuels, including Honeywell Green Diesel and Honeywell Green Jet Fuel™, from a range of inedible biofeedstocks."

Randall C. Stuewe, chairman and CEO at Darling, said, "The availability of

sustainable feedstocks is a key driver for the continued growth of renewable fuels. One of the benefits of the Ecofining process is that the technology is capable of processing a variety of feedstocks collected and manufactured by Darling to produce high-quality green diesel."

Fuel produced at the facility is designed to meet the U.S. Environmental Protection Agency's Renewable Fuel Standard, which requires a minimum volume of transportation fuels sold in the U.S. to contain renewable fuel to help reduce greenhouse gas emissions. The Diamond Green Diesel facility will produce over 200 million ethanol-equivalent-gallons per year of biomass-based diesel as defined under the Renewable Fuel Standard.

UOP and Eni SpA jointly developed the Ecofining process, which uses hydroprocessing technology to convert non-edible natural oils and animal fats to Honeywell Green Diesel. The fuel offers improved performance over biodiesel and petroleum-based diesel, including a high cetane value of 80 compared with a cetane range of 40 to 60 found in diesel at the pump today.

Cetane value is the measure of the combustion quality of diesel. Higher cetane values help diesel engines operate more effectively. Diesel with high cetane can be blended with low-cetane diesel to help meet transportation requirements. Honeywell Green Diesel also offers high energy density and excellent performance at cold or warm temperatures.

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## ALTERNATIVE ENERGY

### EPA names top organizations utilizing renewable energy

The U.S. Environmental Protection Agency (EPA)'s Green Power Partnership released a list of the top 100 organizations that are choosing to use electricity from clean, renewable sources like wind and solar power.

Intel Corporation continues its 7 year run as the nation's largest voluntary user of green power, meeting 100 percent of its electricity load with renewable resources. Other technology companies in the top 10 include Microsoft Corporation, Google Inc., and Apple Inc. Apple increased its annual green power use by nearly 100 million kilowatt-hours (kWh), moving from No. 11 to No. 8 on the list. In total, the combined green power usage of these Top 100 Partners amounts to nearly 24 billion kWh annually, which represents close to 83 percent of the green power commitments made by all EPA Green Power Partners. The list is calculated based on annual green power usage (in kilowatt-hours) by Green Power Partners.

In addition, for the eighth year in a row, EPA is encouraging increased green power use among higher education institutions through the College and University Green Power Challenge. Out of the 33 competing conferences, the Big 10 is this year's conference champion, collectively using more than 309 million kWh of green power annually and avoiding carbon pollution

#### TOP 10 PARTNERS APPEARING ON THE TOP 100 LIST

1. Intel Corporation
2. Kohl's Department Stores
3. Microsoft Corporation
4. Whole Foods Market
5. Google Inc.
6. Wal-Mart Stores, Inc.
7. Staples
8. Apple Inc.
9. City of Houston, Texas
10. U.S. Department of Energy

equal to that produced by the electricity use of more than 30,000 American homes. The University of Pennsylvania continues to be the top individual school in the challenge for the seventh year in a row, purchasing more than 200 million kWh of wind power annually – more green power than any of the 78 other competing schools.

As part of the EPA's Green Power Partnership, more than 1,200 organizations are purchasing more than 28 billion kWh of green power annually, avoiding carbon pollution equal to that created by the electricity use of more than 2.4 million American homes.

### Bluesphere to build new waste-to-energy project

5.2 MW facility to convert organic waste into clean electricity to power Massachusetts

Bluesphere Corp. (BLSP) has signed a Memorandum of Understanding (MoU) with a local developer operating in the recycling and compost business to co-develop a waste-to-energy project in the Boston metropolitan area.

This marks the third waste-to-energy facility in development for Bluesphere. The company is developing a 5.2 MW facility in Charlotte, North Carolina, which is currently in its design and engineering phase and is expected to break ground on construction this year and be fully operational in 2015. The Charlotte, North Carolina facility has received over \$22 million in project financing commitments from a Fortune 50 company and a leading environmental investment fund, as well as having signed a long-term contract with one of

the largest power holding companies in the U.S. to purchase electricity generated at the plant. Bluesphere is also developing a 3.2 MW waste-to-energy facility in Johnston, Rhode Island.

Per the terms of the MoU, Bluesphere will take advantage of the site's existing operations to build and operate a 5.2 MW waste-to-energy plant on the same premises in the Boston metropolitan area. The advantage of such an approach is that the joint project will benefit from the site's existing permits and feedstock supply arrangements.

Bluesphere generates electricity from biogas derived from organic waste, which is mostly food waste, and sells this electricity to leading electric companies through long-term power purchase agreements.

### Casella partners on solar project

Borrego Solar Systems Inc. has partnered with Soltage Greenwood, a joint venture between Greenwood Energy and Soltage LLC to develop a solar project, launched by Casella Waste Systems on its Coventry, Vermont landfill site.

The 2.7 megawatt (MW) project will sell power to Vermont Electric Power Producers Inc., a purchasing agent appointed by the Vermont Public Service Board,

under Vermont's Sustainably Priced Energy Development Standard Offer Program – one of the nation's first feed-in-tariff programs.

The energy produced by the system is expected to generate approximately 3,199 MW hours annually. Now in its construction phase, the 9,018 panel ground-mount solar array will be installed on the site's buffer zone, which is not slated for waste.

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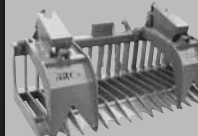
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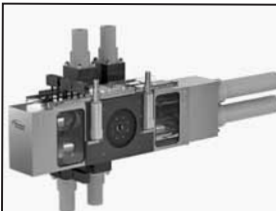


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## INTERNATIONAL

# Ontario would benefit from recycling reforms

The Conference Board of Canada released Economic Impacts of Waste Diversion in North America. This policy briefing report contains extensive and relevant information for Ontario regulators and politicians currently deadlocked on waste diversion reforms.

The report describes the significant potential net economic opportunity associated with increasing waste diversion in Ontario from the current rate of under 25 percent to 60 percent.

Rob Cook, chief executive officer of the Ontario Waste Management Association (OWMA) observed, "Increasing Ontario's waste diversion rate to 60 percent would support close to 13,000 net new jobs in the province. This jobs calculation, which is deemed conservative by the OWMA, would be accompanied by a boost to GDP of \$1.5 billion and a decreased dependence on U.S. landfills as home for Ontario waste."

The OWMA contends that three priority actions will put Ontario on the correct path to reap the benefits of more jobs and enhanced environmental stewardship:

1. Fix the broken waste diversion framework.

2. Increase waste diversion in areas of low diversion by utilizing economic instruments such as disposal bans and extended producer responsibility.

3. Require direct accountability for achieving environmental outcomes.

Cook noted, "With Ontario's election pivoting around jobs and the economy, the OWMA has taken the step of distributing copies of Economic Impacts of Waste Diversion in North America to each provincial party leader. We trust this is the right information, provided at the right time to aid politicians of every stripe to understand and embrace the potential employment and waste diversion benefits."

ReThink Waste (released by the OWMA in 2013) complements the new Conference Board of Canada report. ReThink Waste is a blueprint to unlock Ontario's resource recovery potential and sets the stage for a multi-million dollar investment by expanding Ontario's waste management infrastructure.

## GFL Environmental acquires WM Canadian assets

GFL Environmental Inc. has entered into a definitive agreement with Waste Management of Canada Corporation to buy Waste Management's assets in the Provinces of Nova Scotia, New Brunswick and Newfoundland and Labrador. The closing is subject to conditions, including obtaining certain regulatory and contractual consents. GFL and Waste Management will work together to obtain the required consents and expect to close the purchase in due course. GFL has committed to make all of Waste Management's employees in Atlantic Canada part of the GFL team.

"The acquisition of Waste Management's assets in Atlantic Canada offers GFL a unique opportunity to acquire a strong base of customers and assets with

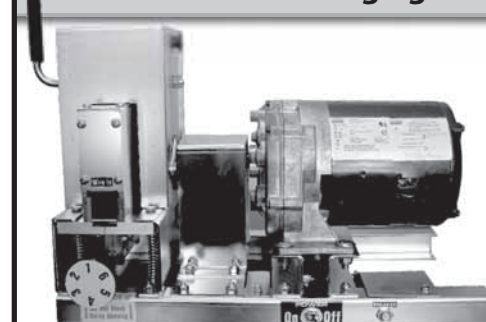
six hauling yards and three landfills," said Patrick Dovigi, president and chief executive officer of GFL.

GFL, headquartered in Vaughan, Ontario, is a diversified environmental services company providing a comprehensive line up of solid waste, soil remediation, and liquid waste services. Through a national platform that currently spans 5 provinces, GFL serves approximately 12,100 commercial and industrial customers and approximately 888,000 households under municipal solid waste contracts. With the addition of Waste Management's Atlantic Canada employees and the employees of Tri-Line and Deuce from GFL's recent acquisition in Alberta, GFL will have a workforce of over 1,600 employees.

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## PAPER

### AF&PA releases paper reports

The American Forest & Paper Association released its April paper reports.

#### Containerboard

Containerboard production decreased 5.6 percent from March and was 0.8 percent lower compared to the same month last year. The month-over-month average daily production decreased 2.4 percent. Shipments for April were 2,817.5 thousand tons, representing 160.2 billions of square feet. The containerboard operating rate for April decreased 1.2 points from March, from 95.9 percent to 94.7 percent.

#### Kraft Paper

Total Kraft paper shipments were 133.5 thousand tons, 4.4 percent higher compared to March. Bleached Kraft paper shipments were 2.6 percent higher than March, while unbleached Kraft paper shipments were 4.6 percent higher. Overall, shipments for the first four months of 2014 were 2 percent lower than the same period last year. Total month-end inventories decreased 3.6 percent compared to March.

#### Printing-Writing Paper Report

According to the report, total printing-writing paper shipments decreased 3 percent in April compared to April 2013, with increases in year-over-year shipments in uncoated mechanical, coated mechanical and coated freesheet grades.

- Uncoated free sheet (UFS) paper shipments in April decreased 8 percent compared to April 2013. YTD shipments are down 7 percent in 2014. UFS imports increased 38 percent in March compared with a decrease in UFS export shipments of 12 percent.

- April coated free sheet (CFS) paper shipments increased 1 percent to 313,800 tons. YTD shipments of coated freesheet grades are essentially flat in comparison.

- Uncoated mechanical (UM) paper shipments also increased 5 percent in April, the seventh year-over-year increase in the past eight months. Year-to-date shipments of UM are up 3 percent.

- Coated mechanical (CM) shipments in April increased 1 percent relative to April 2013, the first year-over-year increase in the past 21 months. Imports of CM through March were down 12 percent relative to the same three month period in 2013.

### Paper recovery rate down in 2013

The American Forest & Paper Association (AF&PA) has reported that 63.5 percent of paper consumed in the U.S. was recovered for recycling in 2013, down slightly from the previous year's recovery rate of 65.1 percent.

The annual paper recovery rate has nearly doubled since 1990, and the industry has set a goal to exceed 70 percent paper recovery by 2020 as part of its Better Practices, Better Planet 2020 sustainability initiative. Paper recovery for recycling helps extend the life of paper and paper-based packaging products.



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6 cylinder John Deere engine. Well maintained. \$80,000



**1999 SIERRA 500T SHEAR/LOGGER/BALER**  
1999 Sierra 500 ton shear/logger/baler. \$127,500



**2002 FUCHS MHL 360**  
Good condition. Fresh motor and main pump. \$155,000



**2007 SENNEBOGEN 850M W/ GENSET**  
16,665 hours. Engine replaced 11,766 hours. \$168,000



**2010 SIERRA 500SL SHEAR LOGGER BALER**  
Excellent condition with only 2,500 hours. \$425,000



**2006 AL-JON 400 XL METAL BALER**  
7,600 hours. Good condition and immediately available. \$195,000



**WILLIAMS 60 X 60 METAL SHREDDER**  
1,500 hp EMD Diesel power complete shredding system and spare parts. Great price! Call for all the details, see it running. \$750,000





**KOEHRING 6630 SK MATERIAL HANDLER**  
Koehring 6630 SK material handler with 15kW hydraulically driven genset. 8.3 Cummins power. \$47,500



**2010 AL-JON 580CL CAR LOGGER**  
4,200 hours. Good condition, great price! \$265,000



**2006 LABOUNTY MSD3000 SHEAR**  
Being completely rebuilt. \$68,000



**2008 ELECTRIC AL-JON 400XL BALER**  
2,750 hours. Includes Lincoln Quik Lube. \$275,000



**2000 GENESIS GMS 400 SHEAR**  
Completely rebuilt by dealer. Very nice shear at a very good price. \$68,000



**1996 AL-JON 400 METAL BALER**  
GOOD condition. \$98,500



**2011 HITACHI 225LC W/SHEAR**  
2011 Hitachi 225LC with 2012 Genesis GXP300R shear. \$196,000



**2005 LABOUNTY MSD4500R ROTATING SHEAR**  
Rebuilt like new. \$110,000



**1988 AL-JON 400 METAL BALER**  
Great price! Recently painted and reworked. \$70,000



**2006 LOLLINI AUTO LOGGER AL6000**  
Nice condition, ready to work. \$205,000

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## Harris BSH 1335-Ton Shear

This Harris 1335-ton shear was completely rebuilt only months before it was *professionally* decommissioned and dismantled.

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**\$595,000. USD**



*This shear comes with THOUSANDS OF DOLLARS in new spare parts!*





# Steel imports increase by 15 percent in April 2014

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 3,726,000 net tons (NT) of steel in April, including 2,738,000 NT of finished steel (up 15.2 percent and 12.2 percent, respectively, vs. March final data). Year-to-date (YTD) total and finished steel imports are 13,451,000 and 9,894,000 NT, respectively, up 29 percent and 20 percent respectively, vs. 2013. Finished steel import market share was an estimated 27 percent in April and is estimated at 26 percent YTD.

Key finished steel products with a significant import increase in April compared to March are wire rods (up 71 percent), heavy structural shapes (up 43 percent), line pipe (up 34 percent), cold rolled sheets (up 27 percent), standard

Major products with significant YTD import increases vs. the same period last year include wire rods (up 113 percent), plates in coils (up 68 percent), cold rolled sheets (up 52 percent), reinforcing bars (up 47 percent), sheets and strip all other metallic coatings (up 41 percent), sheets and strip galvanized hot dipped (up 35 percent), hot rolled sheets (35 percent), mechanical tubing (31 percent), oil country goods (up 15 percent) and cut lengths plates (up 13 percent).

In April, the largest volumes of finished steel imports from offshore were all from Asia and Europe. They were from China (416,000 NT, up 108 percent vs. March final), South Korea

	APR 2014	MAR 2014	2014 Annual (est)	2013 Annual	% Change 2014 Annual vs. 2013
SOUTH KOREA	401	345	4,702	3,651	28.8%
CHINA	416	200	2,950	1,652	78.6%
JAPAN	210	170	2,121	1,931	9.8%
TURKEY	138	170	1,822	1,347	35.3%
RUSSIA	106	100	1,179	595	98.1%
GERMANY	99	142	1,132	1,279	-11.5%
INDIA	52	81	1,061	762	39.2%
All Others	1,317	1,232	14,715	13,614	8.1%
<b>TOTAL</b>	<b>2,738</b>	<b>2,439</b>	<b>29,681</b>	<b>24,829</b>	<b>19.5%</b>

(401,000 NT, up 16 percent), Japan (210,000 NT, up 23 percent), Turkey (138,000 NT, down 19 percent) and Russia (106,000 NT, up 6 percent). For four months of 2014, the largest offshore suppliers were South Korea

(1,567,000 NT, up 27 percent), China (983,000 NT, up 76 percent), Japan (707,000 NT, up 8 percent), Turkey (607,000 NT, up 30 percent) and Russia (393,000 NT, up 295 percent).

New York based scrap metal recycler Upstate Shredding – Weitsman Recycling has been named the world's leader in scrap and recycling by Platts, an international publication.

Adam Weitsman, owner of the Owego-based company, believes this award is a great honor and testament of his company's commitment to exceptional operations and dynamic growth strategies. Adam Weitsman along with company officials were

Nominees were considered from all across the globe. Judges selecting the finalists and winner of each category carefully examine the finalists' achievements, financial results, leadership, integrity, job growth, and operational excellence before announcing which companies are considered to be the industry leaders.



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METALS

Advantage Metals Recycling awarded for safety standards

Nine of Advantage Metals Recycling's (AMR) scrap metal recycling facilities received the 2014 Corporate Safety Award from The Safety Council of the Ozarks, a regional branch of the National Safety Council.

This award is presented to those companies that strive to provide a culture of safety at their workplace, with safety practices and accident rates which are better than the industry average. The nine award winning recycling facilities are located in Emporia, Kansas City (2nd Street) and Topeka, Kansas and Clarence, Clinton, Columbia, Holts

Summit, Linn Creek and Kansas City, Missouri.

AMR buys common household ferrous and nonferrous scrap metal items like automobiles, appliances, sheet metal, aluminum cans and other aluminum, copper and brass products. State-of-the-art technology is utilized to allow customers to quickly and efficiently recycle their scrap metal and receive payment on site.

AMR operates 16 scrap metal recycling locations across Kansas and Missouri and is wholly owned by The David J. Joseph Company (DJJ).

Pushis appointed AIST president

Glenn A. Pushis, vice president and general manager, Steel Dynamics Inc. – Flat Rolled Division, Butler, Indiana, has been appointed president of the Association for Iron & Steel Technology (AIST) for 2014–2015. He succeeds past president, Terry G. Fedor II, executive vice president – U.S. Iron Ore Operations, Cliffs Natural Resources.

AIST named its executive committee and board of directors during AISTech 2014, their annual conference.

Also appointed as officers were:

- First vice president: George J. Koenig, president, Berry Metal Co., Harmony, Pennsylvania.
- Second vice president: Anton Lukac, vice president, U.S. Flat Rolled Operations, United States Steel Corporation, Pittsburgh, Pennsylvania.
- Past president: Terry G. Fedor II, executive vice president, U.S. Iron Ore Operations, Cliffs Natural Resources, Cleveland, Ohio.

- Officer at Large: Wendell L. Carter, vice president and general manager, ArcelorMittal Indiana Harbor, East Chicago, Indiana.
- Officer at Large: Randy C. Skagen, vice president and general manager, Nucor Steel Tuscaloosa Inc., Tuscaloosa, Alabama.
- Officer at Large: Ronald J. O'Malley, F. Kenneth Iverson chair, professor and director of the Peaslee Steel Manufacturing Research Center, Missouri University of Science & Technology, Rolla, Missouri.
- Officer at Large: Steven J. Henderson, vice president, east region, CMC Americas, Cayce, South Carolina.
- Treasurer: William C. King, assistant corporate controller, United States Steel Corporation, Pittsburgh, Pennsylvania.
- Secretary: Ronald E. Ashburn, executive director, Association for Iron & Steel Technology, Warrendale, Pennsylvania.

Metal theft claims see three year decrease

According to a new report released by the National Insurance Crime Bureau (NICB) evidence exists that the national problem of metal theft might be decreasing. The report reviews metal theft insurance claims from January 1, 2011, through December 31, 2013.

In 2011, a total of 14,676 metal theft claims were processed. The number dropped to 13,603 in 2012 and decreased again in 2013 to 10,807 – a decline of over 26 percent from 2011. During this period, 41,138 insurance claims for the theft of copper, bronze, brass or aluminum were handled – 39,976 of them (97 percent) for copper alone. When the number of metal theft claims per month and monthly average copper prices are compared, the number of claims filed is found to have a statistically significant correlation with the price of copper.

NICB's previous report on metal theft reports Ohio ranked first of all the states generating 4,144 metal theft claims. It was followed by Texas (2,827), California (2,489), Pennsylvania (2,345) and Georgia (2,067).

The top five core based statistical areas generating the most metal theft claims were New York-Newark-Jersey City, NY-NJ-PA (1,725); Chicago-

Naperville-Elgin, IL-IN-WI (1,386); Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (1,200); Atlanta-Sandy Springs-Roswell, GA (1,198) and Dallas-Ft. Worth-Arlington, TX (948).

While this report deals exclusively with submitted insurance claims, the ultimate impact of this activity falls, to some degree, on all consumers. Losses to businesses and government entities are shared with customers and taxpayers through higher costs for goods and services and/or reductions in services. Moreover, depending on the circumstances of the theft, these incidents may not generate an insurance claim, or even a police report. Consequently, comprehensive empirical data is elusive.

Public awareness often drives necessary legislative activity, which enables law enforcement to better perform its functions. In 2012, Ohio passed legislation which requires scrap metal dealers to obtain identification from scrap metal sellers and prohibits cash payments to scrap metal sellers. Michigan Governor Rick Snyder signed a similar bill into law as did Colorado. While metal thefts continue, the downward trend shown in this latest report may be attributed, in part at least, to these cumulative efforts.



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$275.00	\$285.00	\$297.00	\$378.00	\$386.00
#1 Bundles	per gross ton	270.00	280.00	290.00	369.00	350.00
Plate and Structural	per gross ton	270.00	280.00	295.00	369.00	372.00
#1 & 2 Mixed Steel	per gross ton	269.00	289.00	295.00	340.00	345.00
Shredder Bundles (tin)	per gross ton	230.00	260.00	200.00	275.00	282.00
Crushed Auto Bodies	per gross ton	230.00	260.00	200.00	275.00	282.00
Steel Turnings	per gross ton	170.00	169.00	138.00	220.00	228.00
#1 Copper	per pound	2.85	2.85	2.90	2.79	2.91
#2 Copper	per pound	2.70	2.72	2.80	2.66	2.72
Aluminum Cans	per pound	.65	.69	.76	.72	.70
Auto Radiators	per pound	1.96	1.90	1.94	2.00	1.99
Aluminum Core Radiators	per pound	.60	.62	.73	.69	.66
Heater Cores	per pound	1.60	1.38	1.39	1.70	1.75
Stainless Steel	per pound	.70	.70	.79	.85	.80

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

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

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**Colmar 3200 Portable Logger Baler, CALL!**

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## AUTOMOTIVE

# EPA requires Ford to correct fuel economy

The U.S. Environmental Protection Agency (EPA) disclosed that Ford Motor Company is revising the miles per gallon (mpg) estimates for six vehicle models to correct errors found in an internal Ford audit. Ford is required to correct fuel economy labels on affected vehicles immediately.

EPA oversaw Ford's re-testing program and conducted independent tests to confirm the corrected results as soon as it was notified by Ford of the potential

errors. Ford has agreed to implement enhanced validation tests for future vehicles under EPA oversight.

"This issue highlights the need for continued strong oversight of the fuel economy labeling program," said Chris Grundler, director of EPA's Office of Transportation and Air Quality. "Consumers need to trust that fuel economy window stickers are giving consumers reliable and fair estimates of real world fuel economy."

Cars currently in dealer lots will be re-labeled with new window stickers reflecting the corrected mileage estimates. Ford will re-label four versions of the Ford Fiesta, the Hybrid and Energi versions of the Ford Fusion, the C-Max Hybrid and Energi, and the Lincoln MKZ Hybrid. Most labels will change between one to five mpg. The largest change is for the Lincoln MKZ hybrid whose combined city and highway fuel economy value has been reduced by 7 mpg. EPA and DOE have updated their joint fuel economy site, [www.fueleconomy.gov](http://www.fueleconomy.gov), to reflect the corrected numbers.

EPA's National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan, conducts fuel economy testing on a number of vehicles each year to ensure that their performance matches the mileage and emissions data submitted to EPA by automakers. These "spot-checks" are part of the oversight program that helps verify that vehicles on the road meet tailpipe emission standards and that all carmakers follow the same procedures for calculating mileage estimates.

## Salvaging Millions

by Ron Sturgeon  
Autosalvageconsultant.com

### Pay for performance – milking the extended warranty cash cow

**A continuing series of articles on increasing profits and cash flows.**

Some of the auto yard owners who come to me for advice ask for help increasing profits. Many have owned yards for years and are struggling to earn what they did a few years ago.

Most of the time, they want me to give them a formula to sell more parts. They think the easy way to more profit is more sales.

I lay out the capital needed to buy more cars and the cost of added marketing to bring in more part sales and I let them know that building the momentum to raise sales might take several months or longer.

Sometimes, they don't have the money to invest in inventory or promotion. I always suggest that we take a look at the expense side of the ledger or find low cost ways to get add on sales.

Cutting expenses can be done right away and can improve cash flows in weeks, not months. Then the better cash flows can be invested in more inventory and better marketing and revenues will go up.

One of the best ways to work on the expense side of the ledger is to revamp compensation from hourly to pay for performance. In past articles in this series, I have discussed pay for performance for inside sales, dismantlers, parts pullers, delivery drivers, inventory people, and outside sales. This installment is about selling extended warranty.

Part of giving your salespeople the right incentives to perform has to be a solid extended warranty program. If you are not offering warranties on parts, you are leaving a lot of money on the table.

When I sold my Texas yards to Ford in 1999, we were selling about 15 million per year. About one million of that was extended warranty. When Ford was doing its due diligence, they asked about extended warranty claims.

We had studied extended warranties and knew that a warranty sale produced a claim less than five percent of the time. They thought our numbers were too good to be true. We gathered more data and re-did the analysis.

It was still below 5 percent. That means extended warranties are insanely profitable. I was glad to pay 20 percent commission on these add on sales. We excluded some parts with proven high failure rates, but most parts we sold had at least one warranty option.

Many recyclers offer extended warranties only on mechanical parts. Why? Why not offer one on a fender or a wheel? Your customers are buying a fender because theirs was smashed in a wreck. Yep, we guarantee to replace that fender even if that happens again. Think about it, what are the odds?

If you have a top-performing, well-trained sales staff, extended warranty should be 10 percent of your sales. It's found money! Why wait to start adding it to your bottom line? Some of your competitors have been milking the extended warranty cash cow for more than a decade.

Some yards don't do warranty because they worry about returns. Remember that used parts almost always fail right away if they are going to fail. You are probably already offering 90 day warranties and a return in this period is a return, not an extended warranty claim.

How many parts come back more than 90 days after they were purchased? Almost none.

I remember one Mazda RX 7 owner who got two replacement engines over a five year period. We took his picture and used it in our warranty sales brochure. His picture made me a lot of money even though he was the exception. Who keeps a 10 year old car for 5 years? And engines today are lasting longer than they ever have.

## RUBBER

# Tanke signs \$30 million contract

Tanke, Inc., a diversified holding company focused on emerging technologies and "cleantech," has signed a \$30 million contract in the e-waste industry.

Over 65 million tons of annual global e-waste is forecasted to be generated by 2017 with strong and continuous growth. Across the world, e-waste is already the fastest growing of all waste streams. In 2012, the most recent year for which reliable data exists, China alone generated 7.25 million metric tons of e-waste, which is 2nd only to the United States at 9.4 million tons.

Under this contract, Tanke will provide management under the eManagement brand, and in partnership with E-Waste Systems Inc., bring state-of-the-art technologies and processes for the proper handling of electronics recycling, and electronic waste materials recovery and reuse on a global scale.

Recently, Tanke announced a new investment in the amount of \$2.3 million in the e-waste industry. The initial value of the deal is worth \$800,000, plus royalties and a minimum \$5,000,000 sales commitment that were fulfilled in record time.

By 2020, e-waste in China is expected to jump by 400 percent from 2007, while discarded mobile phones will be 7 times higher. Profits for the emerging e-waste industry in China are forecasted to rise by over 300 percent reaching \$10 billion by 2017.

*Two men were sentenced to die in the electric chair on the same day. The warden, turning to the first man, solemnly asked, "Son, do you have a last request?" The man replied, "Yes sir, I love dance music. Could you please play The Macarena for me one last time?"*

*"Certainly," replied the warden. He turned to the other man and asked, "Well, what about you, son? What is your final request?"*

*"Please," said the condemned man, "kill me first."*

## Toyota disaster relief giving nears \$86,000

In the aftermath of the April 28 tornado that struck Northeast Mississippi, Toyota asked how they could help those in need. The answer shaped itself in the form of almost \$86,000 donated by Toyota, near site suppliers and team members.

Toyota Mississippi and its team members collectively donated more than \$35,000 to volunteer organizations responding to tornado relief efforts in North Mississippi. The donation included a company donation of \$20,000 to the Northeast Mississippi Chapter of the American Red Cross and \$15,000 from Toyota team members and the company's dollar-for-dollar donation match program.

In addition to monetary donations, Toyota and supplier team members volunteered 1,445 hours of personal time removing debris from damaged areas.

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*This article was provided by [autosalvageconsultant.com](http://autosalvageconsultant.com), which was formed in 2001 by recyclers for recyclers, to help them improve their businesses.*



## WASTE

## TV ad campaign launched against New York's plan to build transfer stations

Pledge 2 Protect (P2P) and Asphalt Green launched their first television ad, aimed at educating New Yorkers about the risks of the remaining components of the Solid Waste Management Plan (SWMP) adopted by former Mayor Michael R. Bloomberg. Although most of the SWMP has been adopted, two Marine Transfer Stations (MTSs) remain to be built that the city maintains are key to the plan. In particular, the East 91st Street MTS is slated for construction in one of the most densely populated areas of New York City and sited so it would cut through the center of Asphalt Green's 5.5-acre sports and recreational campus. Building this MTS will expose 34,000 children who use Asphalt Green to the toxic fumes and safety hazards created by hundreds of garbage trucks driving on a ramp that will bisect this sports facility.

As currently designed, a truck ramp would sit only 11 feet from Asphalt Green's toddler playground, and would run alongside virtually the entire roadside perimeter of Asphalt Green's sports fields. Hundreds of garbage trucks a day would enter and exit on this ramp. No other MTS site is in an area as densely populated or as close to recreational facilities, parks, playgrounds, schools and hospitals.

The 30-second spot will air on local New York City television stations and be distributed through social media.

The ad campaign is part of a broader effort that includes more ads, grassroots and other activities to continue to educate New Yorkers about the negative impacts of remaining components of the Bloomberg SWMP, and how these components will harm new communities.

## EPA reaches settlement with operators of Arecibo Landfill

The U.S. Environmental Protection Agency (EPA) recently disclosed a legal settlement with Landfill Technologies of Arecibo, the municipality of Arecibo and the Puerto Rico Land Authority to settle alleged violations of the Clean Air Act. As part of the settlement, the landfill's owners and operators have agreed to make numerous upgrades to the landfill that will protect the health of area residents and the Caño Tiburones, an environmentally-sensitive wetland and natural reserve that is adjacent to the landfill.

Under this agreement, Landfill Technologies and the municipality of Arecibo will fund and implement a recycling program in the city and continue to collect and treat non-methane compounds from its landfill gas collection system, which will also reduce methane emissions. In addition, Landfill Technologies will pay a \$250,000 penalty and the Puerto Rico Land Authority and Arecibo will each pay \$50,000 in penalties.

Under the settlement terms, the landfill operators have agreed to implement a comprehensive recycling program, as well as a composting program designed to compost agricultural and yard waste. Landfill Technologies will provide the municipality with recyclables collection, a compacting vehicle

and 21,000 14-gallon collection bins to be distributed to households for curbside recycling. The municipality of Arecibo will establish recycling collection centers in areas of the municipality where there is no curbside collection.

Arecibo will also implement an education and community outreach program to be funded by annual, \$10,000 payments over an 11 year period by Landfill Technologies. This program will educate community members about the benefits of composting and will provide guidelines for implementing a composting program in households and businesses.

The landfill operators have agreed to make improvements at the landfill, including the implementation of additional flood protection measures, ground water monitoring improvements, stormwater runoff controls, leachate controls, the removal of junked autos and other targeted waste from nearby wetlands and the implementation of a plan to properly fund closure of the landfill once it reaches capacity.

Landfill Technologies using methane collected to generate electricity. This system, the first of its kind in Puerto Rico, supplies power for facility operations at the landfill. The landfill's operators are working to connect the system to the Commonwealth electric grid.

## Ute Mountain Ute Tribe receives grant for clean up

Tribe among 171 communities receiving grants to assess and clean up properties

The U.S. Environmental Protection Agency (EPA) revealed that the Ute Mountain Ute Tribe will receive a \$200,000 EPA Brownfields grant to clean up the Old Towaoc landfill near the community of Towaoc. The cleanup will enable the Tribe to move forward with redevelopment plans for the site, including the installation of solar panels to produce renewable energy for use on the Ute Mountain Ute Reservation.

The Ute Mountain Ute Tribe will use the EPA Brownfields funds to clean up the Old Towaoc Landfill, which has been closed and abandoned since the late 1990s. The cap used for closing the landfill is currently eroding, exposing landfill materials, trash and contamination. Site contaminants include metals, and organic and inorganic compounds. Upon completion of the cleanup, the Tribe intends to redevelop a portion of the landfill site as a solar farm.

The Tribe is among 171 communities nationwide receiving 264 grants totaling \$67 million in brownfields funding to clean and redevelop contaminated properties, boost local economies and leverage jobs while protecting public health and the environment. The FY14

Brownfields Assessment, Revolving Loan Fund, and Cleanup grants will give communities and businesses a chance to return economic stability to underserved and economically disadvantaged neighborhoods through the assessment and clean-up of abandoned industrial and commercial properties, places where environmental cleanups and new jobs are most needed.

"EPA Brownfields funds continue to help tribal communities put blighted sites back into productive use," said Shaun McGrath, EPA's regional administrator in Denver. "These projects will create new community assets and leverage investments that create jobs and opportunities."

Since the inception of the EPA's Brownfields program in 1995, cumulative brownfield program investments have leveraged more than \$21 billion from a variety of public and private sources for cleanup and redevelopment activities. This equates to an average of \$17.79 leveraged per EPA brownfield dollar expended. These investments have resulted in approximately 93,000 jobs nationwide.

*It's hard to explain puns to kleptomaniacs because they always take things literally.*

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## WASTE

## Three charged in illegal dumping on state lands

The New Jersey Department of Environmental Protection's (DEP) new initiative to crack down on illegal dumping in state parks and lands has yielded two more arrests and a warrant for a third arrest, all related to illegal dumping at Leonardo State Marina in Middletown Township (Monmouth County).

The DEP's "Don't Waste Our Open Space" campaign was launched in late March. Since the launch, investigations of illegal dump sites on state properties by State Park Police, Division of Fish & Wildlife's Conservation Officers and DEP's Compliance & Enforcement personnel has resulted in 10 arrests or enforcement actions.

The program is a coordinated effort of a host of DEP agencies, including Parks, Fish & Wildlife, Solid Waste, Water Resources, State Forestry Services and the Natural Lands Trust.

Recent enforcement actions related to illegal dumping at Leonardo State Marina include:

- Matthew Pereira, of Leonardo, was arrested and charged with illegal dumping and illegal transportation of solid waste, stemming from investigations that started in late April. According to authorities, Pereira was hired by a Hazlet resident to replace a fence and remove large amounts of construction and household debris, a large fireplace mantle and a mailbox. All of these items were located in a pile on the marina property.

Pereira, who was released on \$1,500 cash bail, faces a maximum fine of \$75,000. The case was investigated by State Park Police Detectives Timothy Kasony and Officers Ramin Ghaffari, Jason MacAvoy and Joshua Stinson.

- Luis Salmon, of Long Branch has an active warrant out for his arrest and has been charged with illegal dumping

after his 1998 Wave Runner was found near the beach area at Leonardo State Marina, in the area of other illegally dumped piles of debris. Salmon faces a maximum fine of \$35,000. Detective Kasony and Officer Ghaffardi investigated the case.

- Damien Smith, of Leonardo, has been charged with attempted illegal dumping and illegal transportation of solid waste after being found driving on the beach at Leonardo State Marina with a pick-up truck full of trash in late April. According to authorities, Smith stopped his truck in an area of previous illegal dumping activity and attempted to leave as he was observed by Officer MacAvoy, who was patrolling the marina to prevent further illegal dumping.

MacAvoy conducted a traffic stop with the assistance of the Middletown Police Department. Smith's vehicle was impounded. Smith faces a maximum fine of \$15,000 for the charges.

Strategically deployed motion-sensor cameras have been set up in select state parks and wildlife management areas to help nab violators. Information on arrests and charges filed in connection with illegal dumping will be posted on [www.stopdumping.nj.gov](http://www.stopdumping.nj.gov).

The DEP is being aggressive in its pursuit of civil and criminal complaints against violators. Penalties for illegal dumping in state parks and in fish and wildlife areas will include criminal fines of up to \$5,000 per violation and civil penalties of up to \$1,500 per violation. In addition, the state also will seek much stiffer penalties for major violations through the Solid Waste Management Act, which authorizes the DEP and county health departments to initiate civil actions for illegal dumping violations.

## Advanced Disposal and Energy Systems Group converts waste

Representatives from Advanced Disposal, Green Power EMC, and Energy Systems Group (ESG) held a ribbon-cutting ceremony to commemorate completion of the Pecan Row Landfill Gas-to-Electricity facility at the Pecan Row Landfill in Valdosta, Georgia.

Advanced Disposal partnered with ESG, an energy services provider, to design, build, own and operate the landfill gas-to-electricity facility at the Pecan Row Landfill. This renewable energy facility will qualify for a federal investment tax credit and is expected to generate 4.8 MW or enough energy to power approximately 2,000 homes.

The Pecan Row Landfill Gas-to-Electricity facility will produce power by capturing landfill gas emitted from decomposing trash and using it as a fuel

source to power generators. By capturing these landfill gases, this project is helping provide environmental benefits equivalent to the removal of emissions from more than 34,000 cars per year or the planting of about 38,000 acres of forest annually.

The power produced will be purchased by Green Power EMC, via a long term Power Purchase Agreement. Green Power is a non-profit corporation comprised of 38 of Georgia's member-owned electric cooperatives. Green Power EMC's mission is to facilitate procurement and marketing of electricity from renewable sources in Georgia and make it available to its member cooperatives to complement their wholesale power portfolio.

## BUSINESS BRIEFS

### Senior vice president at Schaefer Systems to retire

■ Schaefer Systems International's senior vice president of waste technologies, Michael L. Knaub, is retiring after 23 years with the company and over 40 years in the waste and recycling industry. Knaub joined Schaefer in 1991.

Knaub's career in the waste and recycling industry began as a child. His father owned and operated a waste hauling and recycling company started by his grandfather in 1915. During his high school and college years, Knaub continued to work with the family business. In 1979, he began working with Rubbermaid Applied Products in a regional sales position.

Knaub joined Schaefer Systems International, Inc. in 1991 as regional sales manager and worked his way through the ranks until he was appointed senior vice president/managing director in 2007. During his years with the company, he served on many boards and committees within the industry. These include the WASTEC Board of directors (2003-2008) and the SWANA North Carolina Board of directors (2008-2010). Knaub was also the SWANA International Corporate director (1997-1999) and WASTEC chairman of the board of directors (2007-2008).

Effective July 1, Maria Frizzell, current executive director of sales and operations, leads the Waste Technology Division at Schaefer Systems International, Inc. Frizzell joined the company 11 years ago. During this time, she worked side by side with Knaub growing the division into one of the top suppliers of products for waste technology and recycling in North America.

### Sylvia Quast to head EPA's Pacific SW legal office

■ The U.S. Environmental Protection Agency (EPA) has named Sylvia Quast as regional counsel for the Pacific Southwest. EPA's Pacific Southwest office serves Arizona, California, Hawaii, Nevada, the Pacific Islands, and 148 Tribes. Quast has over two decades of experience handling environmental matters in both the public and private sectors.

Prior to joining EPA, Quast served as executive assistant U.S. Attorney in the U.S. Attorneys' Office (USAO) in Sacramento, California where she was responsible for managing an office of 170 employees and personally handled environmental enforcement and defense cases. She has litigated environmental enforcement actions in the U.S. Supreme Court, as well as the Ninth Circuit Court of Appeals.

Quast also served as the chief of the USAO's Defense Litigation Unit, where she was responsible for litigation on various issues including environmental cases involving, among other laws, the Clean Air Act and Clean Water Act. After several years in private practice, Quast started her federal career in 1994 with the Department of Justice's Environment and Natural Resources Division in Washington, D.C., where she worked on cases involving a variety of environmental issues.

### Kett appointed as CEO and president of IAA

■ KAR Auction Services, Inc., a provider of used and salvage vehicle auction services, disclosed that John Kett has assumed the position of chief executive officer and president of Insurance Auto Auctions, Inc. (IAA), the company's leading live and live-online salvage auto auction subsidiary.

Kett formerly served as the president and chief financial officer of IAA. He has worked for IAA for more than 12 years, and has played an integral role in developing and directing the company's strategy, helping IAA grow into a national company with \$830 million in annual revenue and more than 160 locations across North America.

Kett assumes the role of chief executive officer from Tom O'Brien.

### Chicago Pneumatic names new sales manager

■ Chicago Pneumatic has named Rob Teasley as their new regional sales manager for the Midwest territory. Teasley will represent the full construction lineup for Chicago Pneumatic.

With a background in construction, Teasley will be responsible for working with Chicago Pneumatic independent sales representatives to maintain existing accounts and help with cultivating new customers. He will also provide product training and other support resources throughout his territory, which will include Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, West Virginia and Wisconsin.

With 20 years of professional sales experience, Teasley spent his previous 12 years as a sales manager for a brand of construction tools, working closely with rental and construction houses as well industrial distributors.

### Rodriguez elected to Republic Services board

■ Republic Services, Inc. has elected Ramon A. Rodriguez as non-executive chairman of the company's board of directors, succeeding James W. Crownover who completed his term and will remain a director. Rodriguez has been a director of Republic Services since 1999.

Rodriguez has over 40 years of experience in public accounting and business management. He served as president and chief executive officer of Madsen Sapp Mena Rodriguez & Co., P.A., a firm of certified public accountants. During his tenure there, which spanned from 1971 to 2009, Rodriguez developed vast accounting, management and financial experience.

Rodriguez served as chairman of the company's audit committee and was a member of the integration committee before becoming chairman of the board of directors. He is also a member of the board of directors of Alico, Inc. and the Public Broadcasting Service (PBS).



# BUSINESS BRIEFS

## Vecoplan names director of project management

■ Vecoplan LLC has named Mike LaGoe director of project management. LaGoe has worked as a manager in Vecoplan's project engineering department since 2011 and brings a total of 15 years of engineering management experience to his new position. Prior to joining Vecoplan he was an engineering manager with a manufacturer of air pollution control systems.

LaGoe's responsibilities will include directing the design and development of large scale, turnkey, mechanical systems for the processing and production of alternative fuel feedstock from biomass and waste, as well as general waste recycling and treatment systems. In order to ensure continuous quality control, he will also oversee the manufacture and implementation of projects once the engineering phase has been completed.

## Western Metals acquires Utah recycling facilities

■ Western Metals Recycling (WMR) purchased the assets and business of Sims Metal Management's Utah recycling facilities. The operations include a shredder facility in Salt Lake City and a feeder yard in Orem, Utah. Western Metals Recycling is wholly owned by The David J. Joseph Company (DJJ), a subsidiary of Nucor Corporation.

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## ERI names Kelly Thomas chief operating officer

■ Electronic Recyclers International (ERI) disclosed that Kelly Thomas has been named its new chief operating officer. Thomas most recently served as senior vice president and general manager for Rolled Products North America at Aleris International Inc.

Thomas spent 15 years in the aluminum industry progressing in her career through finance, treasury and commercial leadership into senior management responsible for business unit P&L oversight. Her tenure with Aleris also included roles as corporate treasurer and vice president of Metal Risk Management with roles in both Zurich Switzerland and Cleveland, Ohio.

Prior to Aleris, Thomas held various management positions with Alcoa for 10 years, including global oversight of Alcoa's commodities risk management function and senior commercial leadership for Alcoa Europe's primary products division as vice president Alcoa Materials Management Europe. During her career with Alcoa, Thomas gained global exposure to Alcoa's primary metals operations, working closely with staff in China, Brazil, Australia, Europe and Russia to drive better operational and commercial performance.

ERI's former chief operating officer, Tammy Shegerian, has been named chief revenue officer for ERI.

## Wright named Terex Fuchs regional sales manager

■ Terex Construction Americas appointed Jamie Wright as the new regional sales manager in the northwestern U.S. region for Terex Fuchs material handling equipment. In this role, Wright will have sales and distributor development responsibilities for the expansive line of Terex Fuchs purpose-built material handlers for the scrap, recycling, forestry and port markets in a territory that includes Washington, Oregon, Idaho, Montana and Wyoming. Wright has nearly 20 years of industry experience, including time as a compact equipment product specialist for Terex Construction.

Wright began his industry career in the mid-1990s, working for a heavy equipment distributor. He then moved into a regional sales position for a compact loading and excavation equipment manufacturer. There he developed and expanded distributor representation throughout his territory, giving customers local sales and service support for the equipment. In 2010, he began his career with Terex Construction Americas as a product specialist for the compact construction equipment line, where he maintained, presented and developed product training for the compact equipment market.

Wright will be based out of Terex Construction Americas' Grand Rapids, Minnesota manufacturing facility.

*Police officer: "How high are you?"  
Pothead: "No officer, it's, 'Hi, how are you?"*

## Lakeshore Recycling buys Heartland Recycling

■ Lakeshore Recycling Systems (LRS), Chicago, Illinois has acquired Heartland Recycling. With the acquisition of Heartland, LRS will process over 1.5 million tons of waste material annually and control and process more waste than any other privately-held company in Illinois.

LRS will significantly expand its footprint in Chicago as a result of the acquisition, now operating four materials recovery facilities (MRFs) and transfer facilities throughout greater Chicago. The acquisition also increases LRS revenues to over \$100 million and adds nearly 10 percent to its existing workforce. Heartland, headquartered in Forrest View, Illinois, processes in excess of 600,000 tons of waste material a year, operates two MRFs and serves more than 500 municipal and commercial customers.

LRS customers include the City of Chicago, Village of Skokie, City of Evanston, University of Illinois at Chicago, Walsh Construction Group and McHugh Construction Co.

## Wastequip expands operations in the Southeast

■ Wastequip has opened its newest manufacturing facility in Blacksburg, South Carolina.

The Blacksburg facility will initially produce front-load and roll-off containers, as well as grease containers and specialty products. The facility offers space for on-site inventory to serve customers quickly. It also will have capacity to manufacture compactors and other Wastequip products.

## Jim Daw named Akro-Mils Wadsworth plant manager

■ Akro-Mils has named Jim Daw plant manager for the company's Wadsworth, Ohio, facility. Daw will report to Jeff Gervais, vice president and general manager of Akro-Mils and Jamco.

Daw previously was director of operations for Myers Industries' Lawn & Garden Segment, and he has transferred to the Myers Material Handling Segment to assume the Wadsworth plant manager position.

Daw joined Akro-Mils' Wadsworth plant in 1996 as its manager of shipping and warehousing, and he was later promoted to operations manager.

In 2004, he was promoted to plant manager and transferred to Akro-Mils' Sandusky, Ohio, facility. He then transferred to Myers Tire Supply in 2007, where he held the positions of director of sales and operations, and director of supply chain. In 2010, Daw moved to Myers Lawn & Garden as director of operations.

## Premier Oil Field Services changes its name

■ Premier Oil Field Services now operates under a new name, American Metals Recovery & Recycling Inc.

Also as part of the new move, the company will now trade as AMRR. The name change reflects the evolution of the company into the metals recycling industry.

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## BUSINESS BRIEFS

### Dem-Con opens recovery facility in Minnesota

■ Dem-Con Companies has opened a single-stream material recovery facility (MRF) in Shakopee, Minnesota.

Dem-Con, based in Shakopee, worked with San Diego-based CP Group to design and install the 20-tons per hour MRF with the capability to process 275 tons of recyclables per day. The facility covers 60,000 sq.ft. and serves the Twin Cities area and greater Minnesota. It employs more than 50 people.

The facility includes an education room to explain how the facility works and what materials residents can and can't recycle.

Equipment includes an MSS Aladdin optical sorter to separate plastics; a magnet for metal capture; a baler for multiple materials and one for fiber; and proprietary screen technology.

### Advanced Disposal appoints Bill Westrate

■ ADS Waste Holdings, Inc., operating as Advanced Disposal, disclosed that Bill Westrate has been promoted to chief administrative officer. He will direct Advanced Disposal's administrative functions, including human resources, procurement and information technology.

Westrate has more than 17 years of experience in executive IT leadership. As vice president of information technology at Advanced Disposal and former CIO of Veolia Environmental Services North America, Westrate has worked closely for four years with Burke, who became chief executive officer.

### New Jersey NW&RA names new vice chair

■ The New Jersey Chapter of the National Waste & Recycling Association (NW&RA) has appointed new leadership.

Michael Mastrangelo, vice president of Environmental Logistical Services LLC, was named the chapter's first new chair in 10 years, replacing Armand E. Lembo, president of Lemcor, Inc. Mastrangelo will also serve as the chapter's national representative on NW&RA's Waste & Recycling advisory board.

The chapter also named John F. Cali III, operations manager for Cali Carting, Inc., the chapter's vice chair.

Mastrangelo, whose father is a NW&RA Hall of Famer, is part of one of New Jersey's leading, multi-generational families in the waste and recycling business. He has worked for nearly 40 years in the various sectors of the industry. He currently manages ELS's New Jersey operations – including transfer stations and a material recovery facility – which support disposal and re-use sites in the Northeast and Midwest markets.

Lembo is an active member of NW&RA's legislative steering committee, having contributed to state and federal testimony on waste industry issues for elected officials and corporate leaders. He is an active community leader, fundraising for dozens of charities in New Jersey and New York and serving on boards for Gift of Life International and the Monmouth Council of the Boy Scouts of America.

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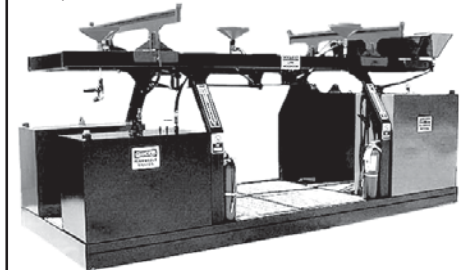
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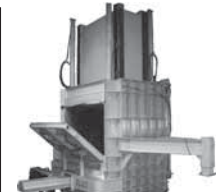
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## Stable rubber recycling market attracts new plant

by MARK HENRICKS

mhenricks@americanrecycler.com

Danish rubber recycler Genan's big new tire recycling plant in Houston is entering a rubber recycling market that, to appearances, is stable and already well-served by existing domestic facilities. The company, which also operates large tire recycling plants in Germany and Denmark, spent 2 years and \$140 million building recycling capacity for approximately 10 million passenger car tire equivalents at the Texas plant. And, according to the company, this is just the initial entry in a long-term plan to build 4 new plants across the U.S. to capture 10 percent of the American tire recycling market.

Genan's moves surprised U.S. tire recycling veterans, who see a generally stable industry lacking growing markets, innovative technologies or unsatisfied demand for a new player to address. "Right now it's the older markets that are expanding," according to Michael Blumenthal, vice president for the Washington, D.C.-based Rubber Manufacturers Association. "Few new markets are out there."

Blumenthal said that tire-derived fuel, which has been the dominant use for recycled tires in the past, will continue to increase. "Tire-derived aggregate will remain at low levels of usage," Blumenthal added. "The use of rubber modified asphalt is a function of the number of lane miles paved, which right now is down considerably."



Due to the relative maturity of the recycled rubber markets, Genan's significant investment in a large tire processing facility in Houston, Texas caught some industry players by surprise. The ramifications of this new entry to the market remain to be seen.

JEVITIC | DREAMTIME

Use of crumb recycled rubber as infill for creating artificial sports fields is currently stagnant, Blumenthal said. Two growing markets are rubber mulch and extruded and molded products created from materials containing recycled rubber. "Rubber mulch has increased," Blumenthal said. "Molded/extruded products have increased gradually."

That's similar to the experience of Max Daughtrey, vice president of operations for Four D Corp., based in Duncan, Oklahoma. Daughtrey said the plant opened in the mid-1990s to supply recycled rubber for asphalt paving projects.

After the paving market never materialized, Four D developed a market supplying makers of rubber mats for use in

dairy cow stalls. "I shipped probably three million pounds of those things," Daughtrey said. "We shipped them all over the world."

Later markets included ground rubber for making children's play areas and playgrounds, and rubber mulch for horticultural purposes. "Then we got into the

See RUBBER MARKETS, Page 7

## EPA puts out smoldering tire fire at Puerto Rico site

The U.S. Environmental Protection Agency (EPA) stated that the fire burning underground at the Integrated Waste Management Tire site in Peñuelas, Puerto Rico is now fully extinguished, and the potential health risks from the smoke have been abated.

The EPA was able to put out the smoldering fire in a pile of discarded tires at the former tire processing facility by using an excavator to separate the pile into small batches while the Puerto Rico Fire Department quenched it with

water and foam. The extinguished material was then stockpiled at the site. The EPA began its work at the site at the request of the Puerto Rico Environmental Quality Board (EQB), and worked in close cooperation with the EQB, the Puerto Rico Fire Department, the Puerto Rico National Guard and the municipal-ity of Peñuelas.

Tire fires are known to release cancer causing pollutants such as benzene, arsenic and cadmium into the environment. The toxic smoke from these pollu-

tants is linked to serious health problems and can aggravate asthma. Scrap tires have also been identified as breeding grounds and habitats for mosquitoes, which are associated with dengue fever, a debilitating viral disease.

A pile of shredded tires approximately 60' wide by 150' long and 60' high caught fire in August 2008. The fire was partially controlled by covering the pile with dirt, but it continued to smolder underground for years. The EPA began its work to break up the pile and

put the fire out and sent emergency response personnel to conduct an initial assessment. Air quality was monitored and showed occasional spikes of particulate matter or soot. A barrier was constructed around the smoldering tire pile to capture any wastewater from spreading into the surrounding area. The municipal government and local community were kept informed.

The pile of tires, tire scraps and related waste has been addressed,

See TIRE FIRE, Page 7

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## A Letter from the Editor

Readers,

We publish a fair number of stories regarding the Environmental Protection Agency (EPA) and their efforts around the nation. The agency's presence is almost ubiquitous in the various industries on which American Recycler reports. Whether it's doling out funds for clean up and prevention efforts, or punishing companies that fail to comply with their byzantine guidelines, the EPA is both Santa Clause and bogeyman. And under a decision released by the U.S. Supreme Court last month, it doesn't look like the agency's far-reaching authority will be curbed anytime soon.

A previous Supreme Court case, *Massachusetts v. EPA*, held that greenhouse gasses such as carbon dioxide are air pollutants subject to EPA regulation under the Clean Air Act. However, a number of parties, including several states, argued that despite that ruling, or possibly as a result of it, the EPA exceeded the authority granted to it by Congress with some of the regulations it promulgated in the wake of that decision.

The Clean Air Act sets permitting thresholds – facilities emitting 100 to 250 tons per year of any regulated pollutant are subject to the law's permitting requirements, which are overseen by the EPA. Those thresholds do not translate well to greenhouse gasses such as carbon dioxide, since they are everywhere in the atmosphere. Because of that, the EPA changed those threshold numbers for greenhouse gas emissions to 75,000 to 100,000 tons per year to narrow the number of emitting facilities that would be subject to the Clean Air Act's permitting requirements.

The Court found that the EPA could not unilaterally rewrite specific standards written into law, even though those standards may not work in practice. However, the Justices went on to find that the EPA still had the authority to impose greenhouse gas regulations on facilities that are already regulated under another EPA program – the Prevention of Significant Deterioration program.

The practical implication is that while a few stationary sources of greenhouse gas emissions may yet evade EPA permitting requirements, the vast majority are still obligated to comply with both permitting requirements, and requirements that they install best available emission control technology.

And so the behemoth agency trundles on unfazed and undiminished for the time being.

Until next month,



Dave Fournier  
Focus Section Editor  
david@americanrecycler.com

## Jakarta to host rubber companies at 8th Global Rubber and Tire Markets Conference



The capital and largest city in Indonesia, Jakarta will be hosting the 8th Global Rubber and Tire Markets Conference.

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This August, the red carpet will be rolled out for 8th Global Rubber & Tire Markets conference at the Le Meridien, Jakarta to welcome the who's who of the rubber and tire industry. Among top speakers are JK Tyres, Goodway Rubber Industries, Bridgestone and Toyota who will provide insights on the major market trends, technological advancements influencing the rubber and tire industry and much more.

Specifically, Yugo Zuigyo, manager, Materials Development Department of Bridgestone Corporation has been invited to shed light on "Approaches to Tire Materials Developments over the Next Decade: Sustainable Materials and the Rubber Industry," while Eko Rudianto, advisor to board of directors of Toyota Motor Manufacturing Indonesia will delve into "Indonesia Automotive Outlook and its Emergence

as an Auto Manufacturing Hub." Sharing more insights on the Indonesia's tire industry is Buddy S. Tanasaleh, vice president, director and COO of PT Gajah Tunggal Tbk.

Also, contributing at the conference are Dr. Rabindra Mukhopadhyay, director (R&D) of JK Tyres and Tai Qisheng, head of sales and marketing at Goodway Rubber Industries who will share industry perspectives on "Green Mobility and High Performance Tires – Technology Trends and Developments" and "Part-worn Tires: Retreading, is it Overtaking the Market Share of Replacement?" respectively.

Other notable sessions are:

- Global Economic Outlook – Destry Damayanti, chief economist, PT. Bank Mandiri (Persero) Tbk

- Butadiene and Synthetic Rubber Market Outlook – Andrew Lee Fagg, principal, Nexant

- Natural Rubber: Strategies for Sustainability in Supply Chain – Ashish Govil, senior vice president and head – rubber division, Olam International Limited

- Recent Developments within the Solution Styrene Butadiene Rubber (SSBR) and Neodymium Polybutadiene Rubber (NdBR) Segments – Massimo Cialone, APAC technical marketing manager, Lanxess Pte Ltd

- Tire and Tire Cord Market Outlook – Cenk Alper, CEO, Kordsa Global

- Carbon Black Market Outlook and Technology Innovations – Theo Al, global director, technical service and application development, Cabot Corp.

- Boosting Performance with Naphthenic Tire Oils – The Role and Contribution of Naphthenic Oils in Today's Global Tire and Rubber Market – Jason Wong, general manager, Nynas Pte Ltd

## Yulex CEO Jeff Martin named Entrepreneur of the Year finalist

Jeff Martin, co-founder and CEO of Yulex, has been named a finalist for the Ernst & Young (EY) Entrepreneur of the Year 2014 Award in the Mountain Desert

region in California. The awards program recognizes entrepreneurs who demonstrate excellence and extraordinary success in such areas as innovation, financial performance and personal commitment to their businesses and communities.

Since co-founding Yulex in 2000, Martin has raised over \$80 million in funding which enabled his company to become the first commercial enterprise to produce biobased natural rubber in North America. The company recently announced a venture with the European chemical company ENI Versalis to build guayule rubber capacity in Europe. Additionally, Yulex just commercialized the first product made from guayule, a plant-based wetsuit alternative to the traditional neoprene (petroleum-based) wetsuit in partnership with Patagonia.

Jeff Martin, co-founder and CEO of Yulex, said, "This award validates the success of Yulex's crop science, biorefinery process and materials science R&D efforts, as well as our business plan designed to successfully pursue large-scale guayule cultivation as an alternative to tropical rubber and synthetic rubber."

### AR EQUIPMENT SPOTLIGHT

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

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# Colorado Governor signs waste tire legislation

Colorado Governor John Hickenlooper has signed legislation to address the Rocky Mountain state's nation-leading waste tire stockpiles. More than 60 million tires currently sit in 2 mammoth piles, known as monofills, that pose a potential environmental risk should either pile catch fire.

The Rubber Manufacturers Association (RMA), which has worked for seven years to enact a waste tire measure in Colorado, lauded the action.

"Colorado needs this legislation to end the stockpiling of waste tires, clean up the monofills and help establish new markets for discarded tires," said Michael Blumenthal, RMA vice president.

Nearly 25 years ago, more than 1 billion tires were stockpiled, while only 11 percent of waste tires were consumed in an end use market. Today, only 100 million waste tires are left in piles across the nation and more than 80 percent of annually generated waste tires are sent to an end use market.

"Colorado has taken a critical first step toward eliminating the stigma of having the highest inventory of stockpiled waste tires in the nation," Blumenthal said.

The bipartisan legislation, championed by Representatives Max Tyler and Don Coram, will eventually shut down and clean up the tire monofills; end an inefficient taxpayer subsidy payment to end users of waste tires; and, cut the



Colorado has some of the largest tire stockpiles remaining in the nation in the form of some 60 million tires divided over 2 monofills.

PHOTO BY APRESCINDERE | DREAMTIME

state's tire fee on new tire purchases from \$1.50 to \$0.55.

"Experience has proven that state waste tire management problems can be solved with enforcement, active cleanup efforts and the expansion of

waste tire markets," Blumenthal said. "By closing the tire monofills and eliminating taxpayer subsidies, Colorado can work toward developing more diverse and higher-value markets for waste tires."

RMA has led efforts across the country to enact environmentally sound and economically efficient waste tire legislation and regulations. RMA is the national trade association for tire manufacturers that produce tires in the U.S.

## Goodyear to build new tire plant in the Americas

The Goodyear Tire & Rubber Company has updated its 2014–2016 capital allocation plan focused on increasing shareholder returns and capturing high-return growth opportunities in North America and Latin America.

Due to Goodyear's strong 2013 free cash flow, which enabled the full funding of its hourly U.S. pension plans in early 2014, the company is reallocating approximately \$1.1 billion of its 2014–2016 cash flow.

The updated capital allocation plan, which aims to increase shareholder value by providing approximately \$650 million in returns to investors, strengthening the balance sheet and investing in high-return growth, includes:

- Allocating an additional \$300 million to growth capital expenditures to enable the company to build a new plant to serve its North American and Latin American consumer tire businesses and capitalize on the anticipated growth in high-value-added tire markets in the two regions.

- Increasing the quarterly cash dividend on Goodyear's common stock by 20 percent to 6 cents per share from 5 cents per share beginning in September. The payout represents an annual rate of 22 cents per share for 2014 and 24 cents per share for 2015.

- Increasing the share repurchase program by \$350 million to allow

Goodyear to acquire up to \$450 million of its stock through 2016.

- Based on company performance, the shareholder return program can be increased up to an additional \$250 million, to a total of \$900 million.

- Allocating an additional \$400 million towards debt reduction, further strengthening Goodyear's leverage metrics and advancing the company's objective of achieving an investment grade credit rating.

The new tire plant will support Goodyear's long-term growth in consumer replacement and original equipment market segments.

Goodyear plans to invest approximately \$500 million to build the new plant, which will be its most technologically advanced and have an initial capacity of about six million tires per year. Capacity can be increased as demand increases. Site selection is underway to identify the best location for the plant to support North America and Latin America customers. Tire production is expected to begin in the first half of 2017.

The company also reaffirmed its 2014–2016 financial targets, which include:

- Segment operating income growth of between 10 percent and 15 percent per year; and,

- Annual positive free cash flow from operations.

*Three starving guys were lost in the desert. They came across a tree, but instead of leaves, it had strips of bacon. They happily climbed the tree and started eating the bacon, but suddenly a gunshot rang out and one of the guys fell over dead. Turns out, it wasn't a bacon tree. It was a ham-bush.*

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# EQUIPMENT SPOTLIGHT

## Wire Separators

by MARY M. COX

maryc@americanrecycler.com

As the practicality of landfill usage continues to wane in fiscal and ecological terms, the practice of extracting metal from tire waste continues to increase. Then all materials involved, rather than being discarded, can be recycled. Equipment that can separate metal wire from rubber is a key component in this process.

The Bi-Metal Clean Wire System (CWS) is designed to produce clean tire wire from the tire recycling process. Bi-Metal partnered with Aggregates Equipment to develop the CWS. Bi-Metal Systems has its roots in the scrap metal recycling industry, and Aggregates Equipment, Inc. manufactures systems for the material processing industry. In the early 1990s, Bi-Metal devised a method to recycle wire in a way that also kept the residual rubber at an acceptable level.

The CWS, working in-line with tire recycling equipment, is designed to process the output of a secondary shredder, which performs the task of shredding the wire from the rubber. The CWS process consists of flexible membrane classification, vibration, and magnetic separation. It consumes very little power, requires minimal maintenance, and no additional labor to operate. Two models are available: model 6130 is designed for the output of a single, secondary shredder processing up to 15,000 lbs. per hour, and model 9160 is designed for two, secondary shredders processing up to 30,000 lbs. per hour. Customized sizes are available to fit specific customer needs.



Bi-Metal Systems, LLC

"The CWS consistently produces tire wire with less than 2 percent rubber contamination. This is considered the highest quality according to the ISRI specification #278. The first CWS was built and installed in 1997. There are now installations throughout the United States – some located with the largest tire recyclers," Mark Bielicki, president, stated.

Bi-Metal also offers brokerage services to assist tire recyclers in selling wire produced from the CWS. The Bi-Metal staff offers vast experience in the scrap metal recycling business and



ECO Green Equipment, USA

they can assist tire recyclers in securing the best possible price for recovered wire. "Steel mills today are looking for competitively priced scrap to meet strict quality standards. Some steel mills prefer tire wire to be loose, others want it baled and some are unable to use it in any form at all," said Bielicki.

He expects market demand for this technology to continually increase. "More and more, tire recycler end markets require increased production of 'wire-free' product, and landfill disposal is becoming an unacceptable option for both economic and environmental reasons. Steel mills are more accepting of tire wire as a scrap feedstock and this trend will continue as long as tire recyclers can produce a reliable, consistently clean tire wire

product," Bielicki explained.

CM Tire Recycling Equipment offers a broad range of systems for the reduction and reprocessing of scrap tires. Kaytee Moran, equipment sales, noted, "From shredding to fine grinding of rubber CM is the world's

leader in the tire recycling industry. The CM Zero Waste System includes a CM Liberator and CM Steel Reclaim System. The Liberator will process 4" to 6" pre-shredded tire material producing a variety of rubber sizes. Depending on capacity, a CM2R or CM4R Liberator can be used."

According to Moran, after material is discharged from the Liberator, the CM Steel Reclaim System efficiently screens and separates the comingled steel and rubber that is generated from the tire recycling process. The material value can be greatly enhanced by this additional processing. The system utilizes a special vibratory cleaning screen in combination with two magnetic separators to reclaim all steel and rubber. Depending on screen size, the 4R Liberator system is capable of processing passenger car and truck tire material at production rates ranging from 4,000 to 20,000 lbs. per hour. The 2R will do half the production of the larger 4R.

The CM 2 and 4 Rotor Liberator has a serrated knife design which gives each knife more linear inches of cutting surface. "The larger cutting surface means less time is needed to process tire material, thus lower energy consumption. The Liberator's over-sized screening area permits efficient screening and separation of wire and rubber. This product also offers an exclusive 'armor-plated' rotor and rotor housing, which dramatically reduces wear to internal components. Internal wear surfaces are lined with replaceable wear liners that are easily changed when worn. This exclusive feature of the CM Liberator results in greater machine uptime. When used together, the CM Liberator and Steel Reclaim System



Columbus McKinnon Corp.

will give you the most profitable, zero-waste scrap tire processing capabilities in today's market," Moran concluded.

"ECO Green Equipment provides the full solution for scrap tire recycling

See SPOTLIGHT, Page 6

### Manufacturer List

**Bi-Metal Systems, LLC**  
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Kaytee Moran  
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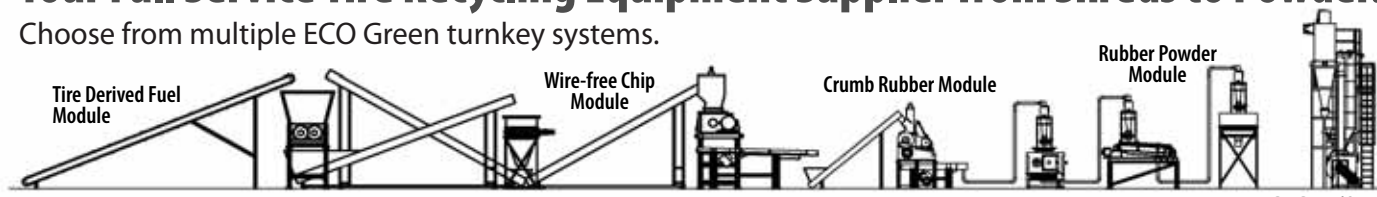
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# A Closer Look

by Donna Currie

## Elder Rubber Company

Shirley Lewallyn • 800-231-2099

Elder Rubber Company will celebrate its 50th anniversary this year, and it's been through some major changes in those years. The company was founded by Ray Elder who later donated it to a charity.

In September 1987, Shirley Lewallyn's kids were in school all day, so she decided to find a job. She checked the classifieds for entry-level jobs. "I knew I had to start at the very rock bottom." She found an ad that listed a company name and location, but no phone number. "I think the reason I got the job was because I could find it," she said.

She was hired as a general office worker, but that started to change when James Robert Riggs bought the company from the charity in early 1988. Rather than take over someone else's office space, he planted his new desk right behind Shirley's. "He picked up on some abilities I had that I didn't know I had," she said.

When they moved out of that office, Shirley said that you could see a circle on the floor at her desk, because she was constantly turning around to hand Riggs something he had asked her for. "I'm in the position I'm in because of him," she said. One of her favorite parts of her job is that, "I get to work with numbers all day long."

One of the things Shirley was good at was analyzing sales and purchasing reports, and eventually Shirley worked her way up from general office work to becoming the company's general manager. She said, "I look back at my life and think, 'How did I get here?'"

"We weren't the OEM," Shirley said of the parts that the company made, "but the quality was good. As a manufacturer, though, our product line was limited."

Under Riggs' control, the company shifted from just being a manufacturer to also purchasing products from large suppliers. "It wasn't practical for them to sell to smaller customers," Shirley said, and Elder Rubber was already selling to those small customers.

The company started to grow and acquired another location in 1990. Now the company has about 30 employees between 2 locations.

"All of the parts are 100 percent inspected," she said, and the company recently received its ISO certification, "which we were very proud to accomplish." She said that the company works hard at maintaining good customer service, and that they still have many customers who were with the company when it was founded.

With the automotive repair business slowing down, the company started looking at other industries. "We've got to be competitive," Shirley said, and soon they began manufacturing a product they call "the star" which is used by recycling companies in equipment that sorts recyclables. "I've never seen it in use," Shirley said, but she hopes to see one in action before she retires – a day which is coming soon.

Shirley has been with the company for 27 years, but she said that there are others who have been there even longer. "It's a good little company," she said, and turnover is very low. Many employees have been with the company for more than 10 years, and even the short-timers have been with the company for 3 or more years.

"The people we've got are some of the sweetest people," Shirley said. "They work hard and they're loyal to the company." She said that once she retires "it will be hard not to see these people every day."

While Riggs is still the owner, he has retired from his position. "But I still send him analytics," Shirley said, so he can keep up with what's going on in the company.

Going forward, Shirley said that she expects that the company will "reach out to get more recycling business," although it will no doubt continue supplying parts to the automotive industry as well. But, she said, the automotive business is still a type of recycling, since the replacement parts give old cars new life.

She also expects that once she retires, her replacement will know more about the manufacturing end of the business "instead of just numbers," but she knows that the company will survive this change just as it survived other management changes.

"Elder has been around a long time, and I think it's going to be around a lot longer, and I can come back and visit here any time I want to."

After all her years at the company, she is most proud of the fact that "the owners trust me. I'm just a down-home girl – I'm just me," she said. "They've given me so much love and respect."

# China's rubber machinery market bounces back in 2013

According to Global and China Rubber Machinery Industry Report for 2014-2017, it is projected that the market size of rubber machinery in China will reach \$4.07 billion. Fueled by the rise in tire investment, the rubber machinery industry in China, following a downturn in 2012, showed a strong rebound in 2013, with the revenue for the year hitting \$2.3 billion, up 36.5 percent from a year earlier. And the revenue accounted for 48.6 percent of the global total, rising 8.2 percentage points compared with 2012.

In the future, with the rapid growth in the production and total ownership of automobiles in China, the supporting tire market will present a rapid development, thus giving an impetus to the rapid growth of the revenue from the rubber machinery industry in China. What's more, the global leading tire manufacturers will speed up the establishment of factories in China, which would drive the demand for tire exports, thereby further expanding the market demand for the rubber machinery in China.

In 2013, the top five rubber machinery enterprises in China by the revenue from rubber machinery business were respectively MESNAC, Dalian Rubber & Plastics Machinery, Yiyang Rubber & Plastics Machinery Group, Tianjin Saixiang Technology and Guilin Rubber Machinery, the same ranking with that of 2012. And their revenues from rubber machinery business were \$405 million and \$193.4 million, \$134.9 million, \$127.9 million, and \$81.9 million, respectively, up 30.8 percent, 7.0 percent, 38.2 percent, 49.2 percent and 6.0 percent, separately, on a year-on-year basis.

Among the top five, however, Yiyang Rubber & Plastics Machinery Group and Guilin Rubber Machinery are the subsidiaries of China National Chemical Equipment Corp.(CNCE), which also holds Fujian Sino-Rubber Machinery Co., Ltd., a third subsidiary specializing in rubber machinery business. In addition, vulcanizer and internal mixer series, manufactured by CNCE, are sold under the two Chinese brands of "Lichuang" and "Double-Wheel."

## Sheerin joins RMA as director

The Rubber Manufacturers Association (RMA) has hired John Sheerin as director, end of life tires, to fill the role served by Michael Blumenthal, who will retire this summer. Sheerin joins RMA from Bridgestone Retail Operations, LLC where he was environmental director since 2008. He joined BSRO as an environmental manager in 1995. At Bridgestone, Sheerin directed the company's environmental activities, programs and systems. He worked on the creation and implementation of the company's spent tire program and recycling initiatives.

Sheerin also has actively participated on RMA member committees on Bridgestone's behalf since 2002. Sheerin has a

B.S. in Civil Engineering and an M.S. in Environmental Engineering from Illinois Institute of Technology and a law degree from Chicago Kent College of Law.

Sheerin will be responsible for representing RMA on matters regarding scrap tire generation, processing and end uses in the U.S.; promote environmentally and economically sound uses for scrap tires; educate stakeholders, public officials and the public about proper scrap tire management; participate in industry coalitions and; conduct research, collect data and publish reports about scrap tire management and end-uses in the United States.

## Spotlight

■Continued from Page 4

and processing. Since 2010, we've designed and manufactured equipment for the recycling industry and we're emerging as a leader in providing cost-effective turnkey tire recycling systems," stated Brad Swenson, manager.

He explained that the key to the firm's equipment line-up is the ECO Grater. "This unique piece of equipment separates the steel from rubber tires and removes up to 99.9 percent of foreign objects in order for the operator to sell or re-use the steel. Steel is in high demand for use as an additive for burning in smelters and in other energy-related industries. The ECO Grater is specifically designed to take pre-shredded tire chips and produce between 1.75" and 0.5" rubber chip for other uses. The machine can process up to five tons of rubber input per hour. The main rotor housing is equipped with replaceable wear plates to increase the durability and longevity of the cutting chamber. It features a knife rotation option, which

allows the cutting knives to be turned once before sharpening or replacement is required."

ECO Green Equipment also provides a full lineup of single and two-shaft shredders, separation, granulation and rubber milling equipment. "Our patented, hydraulic-powered ECO Krumbuster® is the industry standard for commercial grade cracker mills. Our management and engineering teams provide custom-designed tire recycling systems that deliver optimum production for a variety of rubber applications such as tire derived fuel, wire-free chips, crumb rubber and rubber powder," Swenson added.

He said that ECO Green's mission is to provide customers with a competitive advantage. They do this by using proven technology and components in combination with sophisticated testing equipment that ensures all equipment meets industry standards. Each system is tailored to the needs of the business location, market, and customer. ECO Green products are in operation all over the world.



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# Cooper Tire to receive R&D consultation with NASA

Members of the Cooper Tire & Rubber Company technology team were among a select group of companies invited to the University of Toledo to consult with scientists and engineers from NASA Glenn Research Center in Cleveland. A second Cooper team will travel to NASA Glenn Research Center for a similar consultation with subject matter experts.

The consultations are being provided to manufacturing companies who applied for the opportunity to

receive up to eight hours of no-cost consulting from the NASA experts to bring new insights into technical challenges and opportunities the companies are experiencing. Cooper applied for and was qualified to receive assistance with two projects – one focusing on development of a coating for tire molds and the other on RFID technology.

“NASA has some of the best minds in the world who have developed all types of innovations; not only

those related to the exploration of space. Cooper is pleased to have been selected to tap into the brainpower, research capabilities and resources of NASA as we continue to improve our operations and products,” said Chuck Yurkovich, Cooper’s vice president, global research and development.

Companies that applied for the consulting time submitted detailed statements of the needs to be addressed with their projects and also estimated an economic impact. Cooper

is one of 16 area companies receiving consulting through the NASA Roadshow, a program which is in its second year. In Northwest Ohio, NASA is partnering with The Lucas County Economic Development Corporation, Toledo Regional Chamber, The University of Toledo and the Toledo Community Foundation in partnership with MAGNET, the Northwest Ohio MEP and the Ohio Development Services Agency.

## Hexpol finishes integration of Robbins LLC

Hexpol Compounding, a provider of elastomer compounds, has integrated Robbins LLC into the Hexpol family. Robbins LLC is a manufacturer of envelopes and curing tubes for tires, as well as a rubber compounding company.

During the past year, Hexpol’s NAFTA integration team introduced Robbins LLC business lines to appropriate Hexpol locations, merged the sales teams from both companies, implemented financial controls and cost reductions and adjusted inventory levels to reflect the new business model and better serve Hexpol and Robbins customers.

Under the leadership of new managing director Christopher Poirier, the Robbins Muscle Shoals, Alabama, facility recently completed its initial ISO 14001 Environmental assessment and was named Hexpol’s “Most Improved Facility.”

Building on this success, the Robbins LLC brand within Hexpol recently developed a specialized tire market sales team to focus on multiple aspects of serving the tire industry.

## Tire fire

■Continued from Page 1

eliminating the threat of the fire reigniting. Over 12,000 tires were transported to a recycling facility. Approximately 8,000 cu.yds. of material that were not suitable for recycling but were determined to be non-hazardous were left on the site and covered with clean soil. The EPA will remain on site to complete cleanup operations.

While this site is not on the national Superfund list of the most contaminated hazardous waste sites, the work at the Integrated Waste Management Tire site was conducted under the authorities provided by the Superfund law. The Superfund program operates on the principle that polluters should pay for the cleanups, rather than passing the costs to taxpayers. The EPA is currently searching for parties legally responsible for the contamination at the site in order to hold them accountable for the costs of the investigation and cleanup. The EPA has spent about \$400,000 on the cleanup.

## Rubber markets

■Continued from Page 1

artificial turf business and did that for several years,” Daughtrey said. “That’s kind of winding down.”

More recently, the molded products industry has begun consuming recycled rubber. Molders mix rubber and plastic together and extrude the material into products such as rot-resistant planks for use in the flooring of horse and cattle trailers. Daughtrey also sells recycled rubber to companies that make it into durable spacers to put between joints in cement structures.

The rubberized asphalt business still looks promising. Recycled rubber additives have long been known to give asphalt roads greater durability and are safer for motorists to drive on than comparable materials. More recently, the polymers that compete with recycled rubber for use as asphalt additives have become more expensive, making recycled rubber more competitive. However, state highway departments have been slow to accept rubber-modified asphalt.

“We’re looking toward rubberized asphalt again, but the state of Oklahoma has not decided to use it yet,” Daughtrey said. The company does sell some material to another company that regrinds it into smaller particles and sells it to the Texas highway department for use in asphalt, he said.

Four D processes approximately three million tires per year, and Daughtrey said they would like to do more. “We can’t get enough tires,” he said. “We have to supplement production from several of our competitors.” Part of the problem is logistics – Four D doesn’t have a large enough fleet of trucks. However, Daughtrey also said the supply of tires in the region is not excessive compared to the capacity of recyclers or the needs of markets for recycled tires. He speculated that the new Genan plant might be able to import tires from Europe or other markets in order to utilize its capacity.

Rather than added capacity, Daughtrey said rubber recyclers would benefit from having more information about the ingredients tire manufacturers use to create their products. “If we had some indication of what they’re putting in these tires, it would help us tremendously,” he said. However, tire makers guard the materials for their tires very closely, so

recyclers are usually in the dark about what is included in the tires they are recycling.

This has caused problems in the past when, for instance, tire makers began adding Kevlar fibers without informing recyclers. “We had to find out the hard way that they were putting Kevlar in these tires,” Daughtrey said. The Kevlar synthetic fiber tended to cake and clog sensitive precision recycling machinery, he explains.

Similarly, when tire manufacturers began selling tires that contained sealant, they were found to be impossible to process using existing machinery. “I have a stack of a couple thousand of those that I can’t run through,” Daughtrey said.

In a plant like Four D’s, which processes 12,000 lbs of tires per hour, there isn’t time to inspect each individual tire to find out what it’s made of, he said. “If we had some indication of what they’re putting in these tires, it would help us tremendously,” he said. For the moment, however, Daughtrey said recyclers were having no success getting information on tire ingredients.

There has also been little recent change in other key elements of the tire recycling industry, such as regulation. Blumenthal said states are tightening up permitting and hauling requirements, but not much else is happening in regard to regulation. And, while laws requiring manufacturers to take responsibility for disposal of end-of-life products are common in Europe, he said such legislation has not gotten anywhere in the United States.

So for the moment, the entry of a fresh competitor in the U.S. tire recycling industry is among the biggest news in the field. Genan said it serves the same markets as existing recyclers, including artificial turf, playgrounds, sports tracks, asphalt roads, building products, flooring, and injection molded products. However, the company also said that in the next two years its new Houston plant will begin producing very fine cryogenic rubber powder as well as de-vulcanized rubber that can be used in place of virgin rubber.

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