



American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

FOCUS: Rubber Recycling

Crumb rubber or organic infill for synthetic turf?



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Recycling rates hit plateau



Recyclers are finding profitable bales more difficult and more costly to produce.

PHOTO COURTESY OF AMERICAN IRON AND STEEL INSTITUTE

by MIKE BRESLIN

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When the economy droops it appears that almost everything else declines with it, including recycling. That's why we see flat or somewhat lower recycling rates across the board for recycled commodities. Demand for commodities has also been weak which has contributed to the economic woes of many recycling processors.

According to the U.S. Environmental Protection Agency (EPA), municipal solid waste (MSW) recycling rates grew healthily from 1980 at 9.6 percent to 28.5 per for 2000. However, from a 34 percent rate in 2010 it barely rose to 34.3 percent for 2013.

Take the number one recycled commodity – steel. Each year in North America, more steel is recycled than aluminum, paper, glass and plastic combined. Steel scrap is the largest source of raw material for making new steel because it makes sense economically. In fact, according to the Steel Recycling Institute, in each of the past 50 years, more than 50 percent of the steel produced in this country has been recycled through the steelmaking process.

To find out why the steel recycling rate is down we interviewed Jim Woods, senior director of sustainability communications at the American Iron and Steel Institute (AISI).

Woods reported that in 2013, the overall U.S. steel recycling rate was 81 percent with more than 75 million tons of steel scrap recycled. That rate was down from 88 percent for 2012 and 92 percent in 2011. "The rates for 2013 were expected to be lower as a result of limited production of goods through the recessionary period around 2008," said Woods. "Some of these were goods that would have reached the end of their life during this rates cycle. In

addition, post-recession programs meant to stimulate purchasing through incentives to recycle older vehicles and durables accelerated recycling rates in prior years, lowering returns in later years, like 2013."

He said the auto sector, specifically, was down following a significant draw in 2012, which saw a record of more than 14 million vehicles scrapped. In addition, the auto fleet expanded to more than 252 million vehicles, with new vehicle registrations outpacing scrappage by more than 24 percent for the first time in a decade.

Woods noted that a drop in the recycling rates does not mean that more steel was ending up in landfills. It just means that the normal supply and demand that typically drives the balance between scrap consumption and steel production were temporarily imbalanced. As a mature process, the balance between scrap consumption and steel production will re-balance.

Steel recycling rates for 2014 will not be available until later this year.

Woods commented that the recycling of steel cans has remained relatively stable and has been one of the more steady markets. Steel cans are still being recycled at a high rate, 71 percent, mostly because magnetic separation works efficiently and contamination is not an issue for steel recyclers.

"I think people want to do the right thing and recycle, but some economic stresses are being put on the recycling system right now," Woods continued. "There are challenges in the consumer recycling market now because of economic pressures. We are also seeing less recyclable packaging in greater quantities being put into recycling bins. That costs facilities more to process and eats into profitability"

The Northeast Recycling Council (NERC) is a non-profit organization that conducts research, hands-on projects, training, and outreach on issues associated with source reduction, recycling, composting, and environmentally preferable purchasing. Its mission is to promote sustainable materials management by supporting traditional and innovative solid waste best practices, focusing on waste prevention, toxics reduction, reuse, recycling and organics recovery.

Lynn Rubinstein, NERC's executive director shared her views on current recycling rates. "The amount of recyclables that are being put out at the curb is more stagnant than down," she said. "The stagnation is a fairly natural byproduct of the inability of most local governments to promote recycling. There's an old saying that if you don't keep promoting and educating you lose your audience. Public sector budgets have been narrowed over the past few years and promotion and education is becoming more of a luxury item. Certainly, there are exceptions. We're trying to see more money go back into that and create more opportunities for people to recycle through better awareness."

Rubinstein pointed out that when single-stream recycling was first introduced there was a lot of supporting education that generated enthusiasm and participation. As time went on, some people have become sloppy about what they put in the containers which has led to problems at the MRFs and the ability of materials to be truly recycled. She stressed the importance of continuing and evolving education to remind people of the importance of recycling.

"But why are the revenues down for materials?" Rubinstein asked rhetorically. "Part of it is the strength of the U.S. dol-

See RATES PLATEAU, Page 4

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Winners of “I Want To Be Recycled” contest named

Keep America Beautiful and The Ad Council revealed the winners of its “I Want To Be Recycled” video contest, conducted in association with Zooppa. The contest asked crafty recyclers to create and submit videos about how to “give your garbage another life” through recycling. The contest is an extension of the “I Want To Be Recycled” Public Service Advertising (PSA) campaign, which was launched by Keep America Beautiful and the Ad Council in 2013.

The contest challenged participants to illustrate the importance of recycling in their own voice through one of three topics: Upcycling Made Beautiful, Recycling Mythbusters and Recycling Community Stars. The winning videos were selected by a panel of judges from the Ad Council, Keep America Beautiful and Zooppa. Videos will be prominently featured and shared through Keep America Beautiful and the Ad Council com-

munications and social channels. Winners will share in a cash prize pool of \$25,000.

Overall Winners:

•1st Place: Potty Talk

The members of the bathroom family discuss the pros and cons of letting a recycling bin move in.

•2nd Place: Urban Myths

On a dark and stormy night, three teenage girls gather to share stories of recycling gone wrong... but are they just tall tales? Only the Ouija board knows for sure.

•3rd Place: Let's Make Soap

The story of Samir Lakhani, a 22-year-old Pittsburgh student and his creation, EcoSoap Bank, an organization that acquires and recycles leftover soap from hotels, and puts it into the hands of people in other countries who otherwise would have no access to the most essential form of hygiene.

•4th Place: Pizza Box

A talking Pizza Box makes it clear that it doesn't want to be thrown in the trash and dreams of having another life after being recycled.

Category Winners:

•Upcycling Made Beautiful: Did You Guys Hear About John?

John's “friends” in the bathroom give him a tough time when he dreams of becoming a hairbrush in his next life.

•Recycling Mythbusters: It's My World

It's important that we know what we can recycle and put the myths to rest. This video lets us know what we can recycle and explains that it is our world.

•Recycling Community Stars: Saving Old Growth Lumber

Detroit's Workshop makes furniture out of deconstructed homes that would usually be headed to a landfill. Kevin Borsay and James Willer are building a

sustainable business that looks at recycling as an economic advantage, both creating jobs and beautifying blighted neighborhoods.

Early Entry Winners:

•1st Place: Closing the Loop

Drew Lamb, an entrepreneur and hardcore recycler from Southern Oregon, shows us how important it is to “close the loop” and maximize efficiency in operations, and in the process he dispels the silly – but unfortunately, all too common – notion that recycling is, “just for hippies.” Because the truth is that recycling can be an extremely business-savvy decision.

•2nd Place: Ask Kaitlynn

Four year old Kaitlynn, who recently learned about recycling in her Pre-K classroom, busts some myths in her very own talk show, Ask Kaitlynn.

ISRI conducts safety day

As part of the Institute of Scrap Recycling Industries (ISRI) Safety Stand-Down Day, recyclers showed their commitment to safety as a core value. Companies shut down operations for at least one hour on every shift for safety awareness training.

ISRI provided its members with a series of safety training guides, each focused on a significant safety risk: lock-out tagout, mobile equipment, confined spaces, fall protection and machine guarding. Each set of materials included handouts and teaching aids.

Incentives up for oil and antifreeze returns

The Saskatchewan Association for Resource Recovery Corp. (SARRC) has good news for businesses in the recycling of used oil and antifreeze materials.

“SARRC is pleased to announce that used oil, filter, antifreeze and oil/antifreeze/DEF container return incentive (RI) rates will be increased in most regions of Saskatchewan” said Phil Wrubleski, executive director, SARRC. “A return incentive provides registered collectors with an economic incentive to maximize the collection of used oil and antifreeze materials across the province.”

Saskatchewan is divided into seven regions. Through the RI Freight Equalized payment, SARRC registered collectors are compensated based on the region where the amounts were picked up. The value of return incentives is reflective of current market trends of the private sector recycling industry.

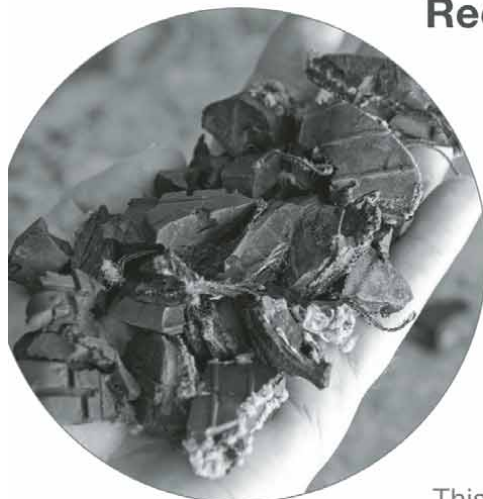
Large generators such as industrial, commercial and institutional organizations and large agricultural operations can contact any SARRC registered collector for pickup. Smaller generators such as do-it-yourself mechanics, farmers or businesses can transport their used

oil and antifreeze materials to their closest EcoCentre or other collection facility.

Used oil is considered one of the most potentially hazardous materials if not properly managed. Since the provincial used oil and antifreeze materials recycling program began in October 1997, until December 2014, it has achieved high total collection rates: 287.43 million liters of used oil; 4.81 million kilograms of oil containers; nearly 32 million oil filters; 168,000 liters of used antifreeze. All materials recovered have been recycled and reused.

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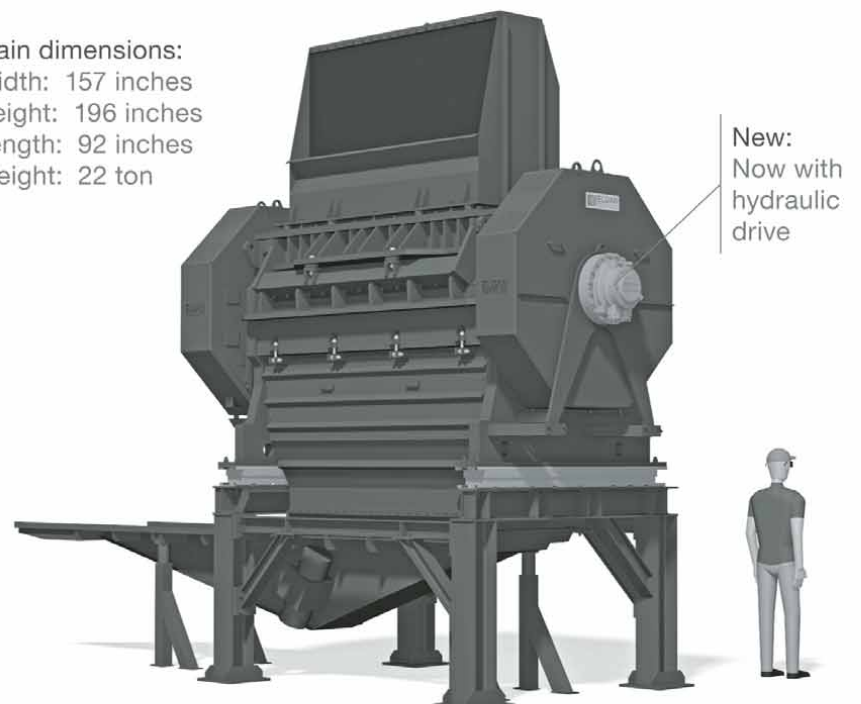
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Vermont receives EPA brownfields funding

EPA is awarding a total of \$2 million in Brownfield Assessment and Cleanup Grant dollars to municipalities and organizations across the state of Vermont. Additionally, three communities have been selected by the State of Vermont for inclusion in the Brownfield Economic Revitalization Alliance (BERA) program.

The EPA brownfields grants, funded by EPA's Brownfields Assessment, and cleanup grant program, provide communities with funding necessary to assess, clean up and ultimately redevelop contaminated properties, boost local economies and leverage jobs while protecting public health and the environment.

Vermont's BERA initiative is a collaboration of the Agency of Commerce and Community Development, Agency of Natural Resources, and Agency of

Transportation to get brownfield redevelopment projects completed faster, cheaper and easier and to enable communities that host these properties to take full advantage of the benefits. This is achieved by facilitating better communication between federal, state, regional and local officials, providing priority funding from state programs, and access to coordinated and timely permitting.

EPA Brownfields Grants

- Town of Brattleboro: \$400,000
- Lamoille County Planning Commission: \$400,000
- Central Vermont Regional Planning Commission: \$400,000
- Northwest Regional Planning Commission: \$200,000
- Springfield Regional Development Corporation: \$200,000
- Two Rivers Ottauquechee Regional Commission: \$400,000

In New England, since the beginning of the brownfields program, EPA has awarded 334 assessment grants totaling \$97 million, 68 revolving loan fund grants and supplemental funding totaling \$85.2 million and 241 cleanup grants totaling \$64.5 million.

These grant funds have paved the way for more than \$2.5 billion in public and private cleanup and redevelopment investment and for nearly 14,458 jobs in assessment, cleanup, construction and redevelopment. These investments and jobs target local, under-served and economically disadvantaged neighborhoods – places where environmental cleanups and new jobs are most needed.

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

Rates plateau

■Continued from Page 1

lar against international currencies. We just don't get as much value as we formerly did for our materials when we sell overseas. Export continues to play a very heavy role. Also, because of dock strikes on the west coast, materials were not moving. At the same time, foreign markets are demanding higher quality bales, and that costs more to produce, so profit is less. Contamination, particularly at single-stream MRFs is an increasing problem. Whether single-stream or not, it's harder to make a high quality bale in order to make good money.

"Then, as if all that is not bad enough, people say that the cost of oil is cheap. Because of that there isn't as much of an economic windfall for using recycled plastics as there was so there isn't really a savings between using recycled plastic as opposed to virgin plastic. I have heard that said many times," Rubinstein concluded.

For a broad overview of recycling rates, we contacted Joe Pickard, chief economist and director of commodities for the Institute of Scrap Recycling Industries (ISRI).

"It's important to distinguish between recycling volumes and recycling rates," Pickard said. "Just because volumes are down does not necessarily mean that we are being less efficient in terms of recycling rates. And, there's no question this has been a tougher year in terms of demand, especially overseas, and we've seen pretty lackluster demand figures domestically as well. That being said, a lot of the commodity prices have come down and impacted the recycling rate. Naturally, as prices come down there's less of an incentive to recycle. If prices fall sufficiently far, especially for some of the lower per unit value items, like some of plastic and paper items, that also lowers the incentive to recycle. That has an impact on volumes."

"I think that's what we are seeing. In terms of being able to quantify how much recycling rates have changed, that's harder to say. I just looked at the American Forest and Paper Association's recent announcement that recycling rates for 2014 actually increased last year, up to 65.4 percent in 2014 as compared to 63.5 percent in 2013. Paper is one of the largest commodities recycled by volume in the U.S. – something on the order of 6 million short tons per year."

"Just from what I hear, the metals recycling rates tend to be relatively steady. Copper makes up about one-third of the domestic supply in terms of scrap input in the U.S. and that's been pretty steady. Steel volumes have come down a little bit, but I don't think recycling efficiency has really changed that much in the last few years. But again, I think it's more on the demand side as to recycling efficiency and that's being affected by economic conditions beyond our industry's control."

Pickard reported that municipal solid waste facilities are having even a harder time economically these days than private sector companies. They are impacted by lower commodity prices, but being asked to process increased volumes of recyclables through single stream, which makes it even harder for them to be economically viable. And, of course, with a mixed stream it makes it harder to process and impacts the quality of the recycling stream as well as the ability to capture value. Lower commodity prices impact everyone, but the municipal side has certain mandates that the private sector does not," said Pickard.

Events Calendar

September 14th-16th

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

September 30th-October 2nd

25th Annual Arkansas Recycling Coalition Conference & Trade Show. Marriott Hotel and Statehouse Convention Center, Little Rock, Arkansas. 866-290-1429 • www.recycleark.org

October 7th-10th

ARA's 72nd Annual Convention & Expo. The Westin Charlotte, Charlotte, North Carolina. 888-385-1005 • www.araexpo.org

October 25th-27th

WV Educational Conference on Litter Control & Solid Waste Management. Canaan Valley Resort & Conference Center, Davis, West Virginia. 304-573-5194 • www.awvswa.com

November 4th-5th

Canadian Waste & Recycling Expo, Palais des Congres, Montreal, QC. 770-984-8016 • www.canadian-waste-recycling-expo-us.messefrankfurt.com

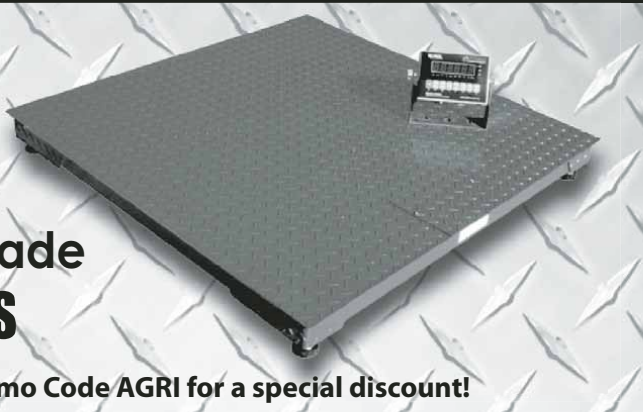
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Keep America Beautiful spotlights recycling

Keep America Beautiful, the national nonprofit, is ramping up its year long efforts to increase participation in recycling by helping people across the country better understand how to recycle more and recycle right at home, at school, at work and on-the-go. Keep America Beautiful disclosed opening registration dates for two of its key fall recycling education and awareness programs: Recycle-Bowl and America Recycles Day.

Registration opened August 10 for Recycle-Bowl, Keep America Beautiful's national K-12 school-based recycling competition, which will begin on October 19 and culminate on America Recycles Day, November 15. America Recycles Day, a Keep America Beautiful national initiative, is the only nationally recognized day and coast-to-coast community driven awareness campaign dedicated to promoting and celebrating recycling in the U.S.

Register your K-12 school (open to public and private schools) for Recycle-Bowl at www.recycle-bowl.org and register your America Recycles Day event at www.americarecyclesday.org.

"Keep America Beautiful is focused on four complementary areas: eliminating litter, reducing waste, increasing recycling and protecting natural beauty," said Jennifer Jehn, president and chief executive officer, Keep America Beautiful. "Our fall recycling programs, Recycle-Bowl and America Recycles Day, are key initiatives in our efforts to regain momentum for recycling in America, to help people recycle more and recycle right and to change behavior to make recycling a daily social norm across the country."

Recycle-Bowl, the nationwide recycling competition for elementary, middle and high school students, is conducted during the four weeks leading up to America Recycles Day on November 15. The in-school competition is for teachers, school administrators, school facility managers, PTA groups and local recycling advocates. Registration will remain open until the official start of the competition on October 19. Nearly 900,000 students and teachers from more than 1,450 schools across the nation competed in 2014.

Recyclables recovered during the 2014 competition totaled 4.4 million pounds with Magnet Traditional School in Phoenix, Arizona, crowned champion. Participating schools leverage Recycle-Bowl to educate students, staff and parents about the importance of recycling, with some even taking field trips to their local recycling center. Competing schools recycle 10 percent more than non-competing schools.

Local organizations and other community partners will schedule educational workshops and recycling collection events in communities throughout the fall in celebration of America Recycles Day. In 2014, more than 2,000 America Recycles Day events were registered.

Event organizers can access valuable resources to plan, promote and host an event on the America Recycles Day website where there are guides for hosting events, activity ideas, downloadable posters and banners, media outreach tools, sample proclamations and more.

Organizers are asked to register their events on the website. Events can be scheduled any time during the fall, leading into America Recycles Day celebration, November 15.

TerraCycle's team takes upcycling to a new level

TerraCycle, a global leader in the collection and repurposing of difficult-to-recycle waste, launched an Etsy.com shop featuring upcycled home and office products straight from the Trenton headquarters.

TerraCycle's design team, the "Design Junkies," turn common waste into innovative new products, ranging from circuit board coasters to a Capri Sun pouch couch.

The TerraCycle on Etsy products are perfect for business offices, home offices, bedroom or living room. And by adding TerraCycle products to your home or office, you're upping your style while reducing your environmental footprint.

TerraCycle's upcycled products can be viewed at www.etsy.com/shop/terracycle.



Upcycled sound stage table from TerraCycle

Standards set for sorting clothes

Textile Recycler, based in Houston, Texas and a member of the Secondary Materials and Recycled Textiles Association (SMART), the international trade association of the for-profit used clothing reuse and recycling industry, diverts more than half a million pounds of clothing and 10,000 pounds of shoes each week from landfills with the use of automated sorting systems.

According to Jackie King, executive director for SMART, for more than 400 years the used clothing and textile recycling industry has relied heavily on manual sorting and grading processes and has seen little to no technological advances since its inception. In 2009, Textile Recycler installed a patented auto grading system from Smart Innovations to eliminate the manual sorting of recycled clothing, increasing efficiency and productivity, and reducing labor costs. In 2014, Textile Recycler installed an automated shoe sorting system and is the only textile recycling company in the world to use one.

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Bandit Industries supports local food drive initiative

Bandit Industries is proud to be a supporter and sponsor for the annual Cans From Race Fans food drive that merges the generosity of racing fans with the need of a local soup kitchen. Over the last 8 years, more than 60,000 pounds of food and thousands of dollars have been raised and donated in Isabella County because of the unwavering generosity of the Isabella County community.

For the last 6 years, the money and food has gone to benefit the Mt. Pleasant-based Isabella Community Soup Kitchen (ICSK), a non-profit that prepares more than 100 meals 6 days a week to help feed the hungry in Isabella County. Cans From Race Fans is held every April at the parking lot of Ric's Food Center in downtown Mt. Pleasant.

The most recent food drive in April resulted in 3,280 pounds of food being donated to the Isabella Community Soup Kitchen. That food will be used to cook breakfast and lunch for people from all



walks of life, said ICSK executive director Kim Friedrich.

Cans From Race Fans is starting to take off around the Midwest, said organ-

ization founder and dirt track racer Alvie Haynes. Dirt tracks throughout Michigan, Ohio and Indiana are holding food drive for local food kitchens under the

Cans From Race Fans banner. In every event, 100 percent of the food and cash donated at the events are passed on to local organizations.

"In Michigan alone, we've done over 100,000 pounds in the last 8 years," he said. "If we get dirt-track racing fans together, there's no limit to the good we will accomplish. Our goal is to have every dirt track in the U.S. get involved."

With so many racing fans part of the Bandit family, it made perfect sense for Bandit to get involved with the food drive.

"We've been a supporter in the annual food drive, helping them in any way we can. But the real heroes are the people who come out and support Cans From Race Fans and donate food and money. It's their continuing participation that makes the food drive such a success," said Aaron Sorrels, Bandit's marketing manager.

EPA provides \$200,000 for environmental job training in Puerto Rico

U.S. Environmental Protection Agency (EPA) regional administrator Judith A. Enck disclosed that the EPA has selected a leading nonprofit organization, PathStone Corporation, to receive \$192,300 to provide green job training in Puerto Rico. PathStone provides services to low-income families and economically distressed communities throughout Puerto Rico, as well as in New York, Pennsylvania, New Jersey, Ohio, Indiana, Virginia and Vermont. The organization will use the funds to

give unemployed or under employed people the skills they need to enter the environmental job market.

PathStone will use EPA funding to train 55 people and place at least 40 people in environmental jobs. The core training program includes 40 hour hazardous waste operations and emergency response training that is required to work on assessing and cleaning up contaminated sites. In addition, people will learn how to properly abate asbestos and lead, and how to operate certain heavy

machinery often used in environmental cleanups.

Participants who complete the core training will earn six Puerto Rico or federal certifications. PathStone will focus on people from the municipalities of Guayanilla, Penuelas, and Ponce, Puerto Rico. The organization will work with a number of key partners, including DISUR, Ponce and Suroeste Consortiums, University of Puerto Rico, Occupational Safety Training Corp., ALTOL Training Center and several other envi-

ronmental and community-based organizations.

The Small Business Liability Relief and Brownfields Revitalization Act was adopted in 2002, establishing a Brownfields Program that provides funding for brownfields assessments, cleanups, revolving loans and green job training. The program encourages redevelopment of an estimated 450,000 abandoned and contaminated waste sites and promotes job creation.

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Over 5 million pounds of batteries collected

Thanks to consumers, retailers and municipalities, more than 5.7 million pounds of batteries were kept out of U.S. and Canadian landfills and recycled so far this year, reported Call2Recycle, Inc., North America's largest consumer battery stewardship organization. This significant environmental victory signals battery collections are on target to grow for the 19th consecutive year.

With approximately 90 percent of both U.S. and Canadian residents living within 10 miles of one of Call2Recycle's approximately 34,000 public drop off locations, battery recycling has become increasingly simple and convenient.

Battery collections, including retailers and municipalities, across both the U.S. and Canada increased by six percent so far in 2015. In the U.S., western states, northern plains and the great lakes regions drove the bulk of growth at 11 percent; while regionally, British Columbia and Ontario grew collections by 19 percent and 7 percent respectively. Since its launch in 2010, British Columbia has collected and recycled more than 4.5 million pounds of batteries.

Last year, Call2Recycle reached a milestone of collecting 100 million pounds in total collections throughout their network in both the U.S. and Canada since launching in 1996.

In Canada, two new jurisdictions, New Brunswick and Prince Edward Island, recently reconfirmed their battery recycling commitment by signing Memos of Understanding with Call2Recycle, adding to the organization's status as the provincially-sanctioned program in Manitoba, Quebec and British Columbia. Additionally, the organization added more than 125 new Ontario municipalities to its collection network.

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ALTERNATIVE ENERGY

Republic expands natural gas-powered fleet

More than half of Republic's Colorado fleet now powered with CNG

Republic Services has added 17 compressed natural gas (CNG) solid waste collection trucks to its fleet serving customers throughout the greater Denver area. The CNG trucks replace older diesel-powered trucks, and bring the total number of natural gas vehicles operated by Republic throughout Colorado to 82.

Republic Services operates a natural gas fueling station at its Commerce City location to support its expanding Denver-based CNG fleet. One-third of Republic's fleet serving the greater Denver metropolitan area is now powered by the domestic fuel source. Republic operates 158 collection trucks statewide, more than half are powered by CNG.

Republic Services of Denver employs 300 people who serve over 200 homeowners associations and municipalities, as well as more than 10,000 commercial customers. Republic also owns and operates two



landfills and one hauling division in the greater Denver metropolitan area.

Nationwide, Republic Services operates a fleet of more than 2,200

CNG vehicles and 38 natural gas fueling stations. Republic's CNG fleet helps to save roughly 18 million gallons of diesel fuel annually.

OPIC to support Jamaican solar energy facility

The Overseas Private Investment Corporation (OPIC), the U.S. Government's Development Finance Institution, signed a financing agreement with Content Solar Ltd., solidifying a \$47 million OPIC loan to support a 20 MW grid connected solar photovoltaic facility in Clarendon, Jamaica. The project is being developed by Florida based WRB Enterprises.

WRB will be the first investor to develop a utility scale solar energy generation facility in Jamaica. The project is also the second to be financed by OPIC in support of the Caribbean Energy Security Initiative.

Jamaica currently generates over 90 percent of its electricity from imported oil, and in addition to fulfilling the U.S. initiative, OPIC's financing to Content Solar for this new solar facility also supports the Jamaican government's own goals to increase generation of secure, renewable energy.

Green3Power to build renewable energy facility on the St. Lucie County landfill

Green3Power St. Lucie LLC has executed an agreement to build, own and fund a \$175 million renewable energy facility (REF) which will convert approximately 1,000 tons of waste per day into approximately 80,000 gallons per day of ultra-low sulfur synthetic green No. 2 diesel fuel.

The facility will utilize G3P's thermal gasification process to produce

synthesis gas and then through the Fischer-Tropsch process produce diesel fuel. The Fischer-Tropsch process has been in use for over 90 years turning gases into diesel fuel. The REF will be built at the existing St. Lucie County Solid Waste Landfill Management Facility site. G3P's strategic partner on the project is R.G. Vanderweil Engi-

neers. G3P will have ownership in the facility and operate and maintain the facility for twenty years after it is funded.

The new REF will process all incoming organic waste, eliminating the disposal of any organic material into the landfill. When completed the REF will convert approximately 1,000 tons of waste per day.

G3P and Vanderweil will provide design, permitting, engineering and procurement services during the next six months. After six months they will provide construction support. G3P will also provide day-to-day operations and maintenance for the facilities for 20 years after the facility is built.

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INTERNATIONAL

Rate influences identified

Resource efficiency experts WRAP published a new report which has identified key factors that influence local authority recycling performance rates, and which quantifies the degree to which these impact on those rates.

The research, "Analysis of recycling performance and waste arisings in the UK 2012/13", has been produced to provide information on what elements impact recycling performances in the UK.

WRAP has analyzed data for 239 authorities, covering 3 authority groups; waste collection authorities in England, unitary authorities in England and unitary authorities in the UK. The analysis included local authorities that provide the same collection service for paper, card, cans, glass and plastic bottles to 80 percent or more of their households. In total, 60 percent of all England and UK authorities

with responsibility for collection services were included in the study.

The research showed that factors within the control of the authorities account for the largest proportion of variation in recycling rates which ranged from 39 percent to 65 percent difference. They include factors such as:

- Whether a local authority has a food waste collection or not – those collecting food waste generally have higher recycling rates.

- Effective weekly residual containment capacity available for waste was found to be significant in all datasets. More capacity is associated with lower recycling rates.

The study also found that across all three authority groups there is little difference in recycling rates whether co-mingled, two stream or multi-stream.

EuPC launches alliance for polymers

During the EuPC General Assembly in Warsaw, EuPC launched a strategic alliance for polymer supplies in Europe.

The alliance was formed in response to a recent series of force majeure declarations by some of the leading EU polymer suppliers leading to shortage of material on the European market and is the consequence of unhappy plastics converters that do not wish to see this repeated in the future. Since early March 2015, the EU polymer industry has declared force majeure on 34 separate and consequent occasions and exacerbated an already tense situation on the EU polyethylene and

polypropylene markets. This has driven polymer prices to levels not seen in the past decade, at a time when oil prices are still relatively low.

The plastics converting industry is a major EU employer and source of growth in Europe, employing more than 1.7 million employees. However, in order to continue this success, the plastics converting industry needs more dialogue and long-term vision in the polymer supply chain and a prompt suspension of EU import duties on polymers which are not being supplied in sufficient quantities in Europe.

PAPER

Sprint to use wheat straw paper for mailings

In its latest effort to optimize paper use and reduce environmental impact, Sprint will pilot a new kind of forest friendly paper for customer mailings in the coming months. The paper, made of wheat-straw byproduct, is not noticeably different to the naked eye than wood-derived paper. However, it offers a new, more sustainable alternative and potential longer-term cost savings as additional paper sources and suppliers are introduced into North America. Sprint's pilot to use the wheat-straw paper for mailed customer correspondence is a first in the U.S.

"We believe sourcing and procuring opportunities like this only improve our supply chain," said Scott Rice, vice president of IT care and billing at Sprint. "We're known for our mindfulness around environmentally sustainable business practices, and this is an innovative approach to using a quality mail product that helps us diversify our suppliers and helps manage costs."

In 1998, long-time environmental advocate and two-time Academy Award nominee Woody Harrelson co-founded and invested in Prairie Paper Inc. The company spent 15 years in research and

development and in 2012 launched the production of its wheat-straw based paper, Step Forward Paper™. The paper is made of 80 percent wheat-straw waste and 20 percent Forest Stewardship Council® certified wood fiber. Step Forward requires 65 percent less land area to produce one ton of paper on an annual basis than virgin tree-based paper and 50 percent less land area than paper with 30 percent recycled content. Step Forward Copy Paper is available in the U.S. exclusively through Staples.com and Staples Advantage.

Sprint has reduced the total weight of printing paper it has purchased annually by 83 percent since 2007. This effort was achieved by optimizing the weight and volume of its mailed customer correspondence and by communicating with and servicing customers online among other efforts. In 2012, Sprint also launched the ecoEnvelope™ for customers who chose to continue receiving a paper bill. This inventive two-in-one reusable envelope reduces paper use and saves more than \$500,000 annually. Like Step Forward Paper, it is helping to advance sustainability throughout the mail industry.



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INDUSTRY PROFILE

A Closer Look

by Donna Currie

Plastics General

Chris Baker • 888-678-4410

Plastics General is a distributor of virgin plastic resin that also buys post-industrial scrap and processes it for sale, according to Chris Baker, the company's sales and marketing manager.

Founded in 1982 by Carl and Judy Weir, the couple first began by picking up scrap plastic, but the company has "evolved from just plastics to a company that does recycling," according to Baker.

Baker said that for many years, Plastics General was the leader in terms of plastic recycling in the area and they got a little bit complacent in that role. Other competitors had started evolving and taking in more materials. "We lost out on business because we didn't take it all," Baker said.

Baker said that many customers didn't want to have two or three different customers at their docks picking up different types of scrap – they wanted just one truck to that would take it all. "That's why we started taking more materials."

When it comes to the types of plastics the company handles, Baker said that "if we can sell it, we buy it." When a customer has a type of plastic Plastics General has never handled before, they research it to see if there are any markets for it. They very often are able to find buyers for the materials.

Much of the plastic they buy is material leftovers from manufacturing, and sometimes it's already shredded. Some material is completed products that need to be destroyed so it doesn't go back on the market. For those customers, Plastics General provides certificates of destruction.

Baker said that while they have "some pretty big grinders" for processing the plastic, they sometimes receive material that's too large, like pipe from construction, so they cut it up before grinding.

While Plastics General buys more types of material than before, they're also seeing a shift in sales. "People are more open to the types of materials that they use," Baker said. "Ten or 20 years ago, people didn't want to use regrinds."

While there are still applications where virgin materials are required, many customers have learned that first-generation food-grade and medical grade regrinds are very high quality, and even second- and third-generation regrinds can be used for many products.

Like any scrap operation, the cleanliness of the material is very important for the quality of the regrinds. Baker said that customers who do a lot of molding are aware of those issues and keep their scrap very clean and well-sorted.

Some customers, though, need help. Plastics General often sends staff to visit customers "to train them on an as-needed basis." Baker said that customers appreciate the feedback about the quality of their scrap, because "everybody is looking to gain profit margin."

Feedback is a two-way street, and Baker said that Plastics General is always looking for feedback from customers about service or any other aspect of the business.

The company has about 35 employees including temps that come onboard when needed, and there are 3 trucks and about 25 trailers used to pick up materials. Baker said that for the most part, their trucks stay within the state of Arizona. "Out of state, it's usually brought in by a trucking company," he said.

But that doesn't mean his trucks stay local. "We have trucks that drive 100 miles away 2 or 3 times a week," Baker said.

Baker said that the plastics business in general had a bit of a downturn when many plastic products were produced in China and Taiwan, "but now it's coming back." He expects that the plastics industry will continue to grow in the U.S.

While Baker has been with Plastics General for a relatively short time, he said that he's impressed that it's a company that is adaptable. "We've picked out some things that we need to improve on," he said, "and we've begun to implement things."

Previously, Baker worked in the injection molding business and he went through an apprenticeship program, so he's happy Plastics General has a program. Promising high school students learn about different types of plastics, how to identify them and how to process them.

Baker said that by giving these bright students a taste of what the plastics industry is like, maybe some of them will consider working in the industry when they're finished with school and they'll continue to build the plastics industry in this country.

While Baker's experience with injection molding made him very comfortable with the materials that Plastics General deals with on a daily basis, his relationships with people in the industry have changed. People who were his competitors before are now his customers. "The conversations have been great," he said. "I'm a guy that's a resource to help them."



GLASS

Rumpke earns award for glass recycling process

Rumpke's unique glass recycling process earned First Place in the Service to Society category at the annual Innovation Index Awards, presented by the Dayton Business Journal and the Dayton Development Coalition.

Annually, more than 40,000 tons of glass bottles and jars collected from homes, restaurants, bars and other venues are processed at Rumpke Recycling's glass plant in Dayton. The plant received more than \$4 million in upgrades in 2011, supported by a \$500,000 grant from the Ohio department of natural resources, accepted by the City of Dayton.

The projected impact of the glass recycling process will improve with continuous innovation. In 2014, Rumpke launched a student engineering project with the University of Dayton innovation center to improve the glass recycling process. The cleanup system the engineering students are developing will reduce

contamination of the glass plant's feedstock by 20 percent, allowing Rumpke to process more efficiently, and ultimately recycle more volume.

According to Ohio EPA, about 90 percent of container glass collected throughout the state ends up in landfills. Ohio manufacturers need an additional 165,000 tons of recycled glass annually, and Rumpke is working to fulfill that demand. Recycled glass saves energy and money in the production of glass containers and insulation. Due to its lower melting point, recycled glass allows manufacturers to use lower furnace temperatures, saving energy and money. The regional emphasis on LEED green building standards is also driving the demand for post-consumer content insulation.

In 2014, the Rumpke Recycling glass plant processed 39,058 tons of broken and mixed glass.

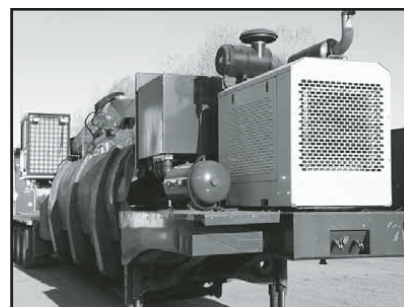
Ardagh's glass recycling method earns national award

Ardagh Group, along with its glass recycling partner, has been recognized for their pioneering achievements at the prestigious National Recycling Awards 2015.

Ardagh & 'Reuse' received a Highly Recommended Award for an innovative method of capturing a significantly higher portion of flint (clear) cullet for remelting into new bottles and jars.

A panel of judges described the project as an excellent example of cradle to cradle packaging, where a glass bottle or jar is collected on the doorstep or at a bottle bank, returned as high quality cullet to the glass manufacturer, and made into a new container without any loss of quality nor performance.

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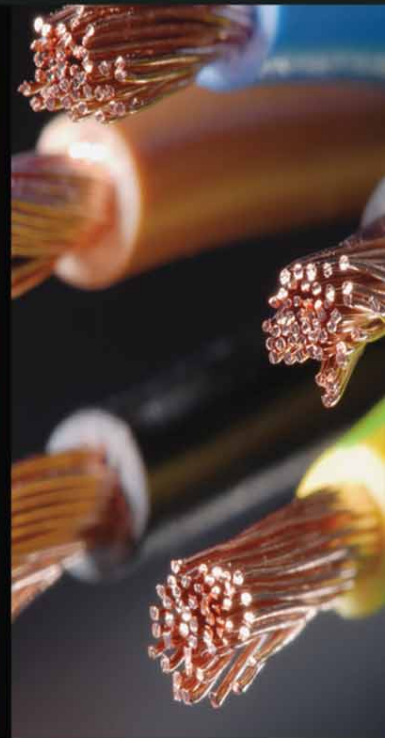
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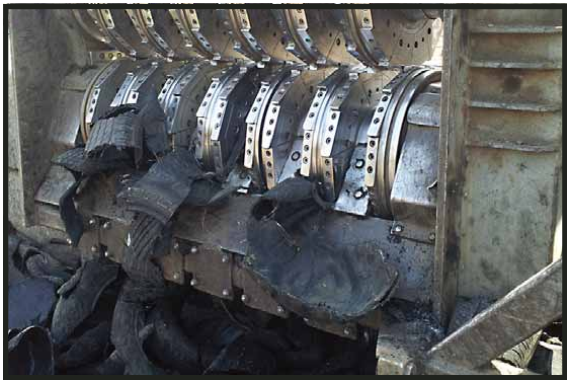
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Steel imports decrease 10 percent in June

Key finished steel products with a significant import increase in June compared to May are heavy structural shapes (up 32 percent) and wire rods (up 11 percent). Major products with significant YTD import increases vs. the same period last year include line

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS					
BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	JUN 2015	MAY 2015	2014 Annual	2015 Annual Est.	% Change 2015 Annual vs. 2014
SOUTH KOREA	311	356	5,449	6,588	12.2%
TURKEY	142	223	2,199	3,471	44.6%
CHINA	190	302	3,189	3,192	-4.6%
JAPAN	181	186	2,106	2,512	16.7%
GERMANY	147	131	1,278	1,620	28.5%
TAIWAN	109	89	1,188	1,466	19.2%
BRAZIL	72	113	810	1,436	68.8%
All Others	1,305	1,351	17,531	16,599	-6.2%
TOTAL	2,458	2,751	33,751	36,882	5.7%

pipe (up 66 percent), standard pipe (up 39 percent), reinforcing bars (up 36 percent), plates in coils (up 27 per-

For 6 months of 2015, the largest offshore suppliers were South Korea (3,056,000 NT, up 17 percent), Turkey (1,589,000 NT, up 65 percent), China (1,521,000 NT, no change), Japan (1,229,000 NT, up 24 percent) and Germany (821,000 NT, up 41 percent).

Owner of sheet metal and machine shop settles with EPA

EPA cited facility operator Central Precision, Inc. (CPI) and owner LAMM Holdings, Inc. for violations of the Resource Conservation and Recovery Act (RCRA), the federal law gov-

Following an EPA inspection and follow-up requests for information, EPA cited CPI and LAMM for viola-

Alleged violations included the failure to make required hazardous waste determinations; failure to comply with hazardous waste container management requirements; failure to conduct required weekly hazardous waste container storage area inspections; failure to comply with personnel training

The penalty reflects the facility's compliance efforts, and its cooperation with EPA to resolve the violations. As part of the settlement, CPI and LAMM have neither admitted nor denied liability for the alleged violations, but have certified compliance with applicable RCRA requirements.

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METALS

Merits of federal metals theft legislation questioned

The Institute of Scrap Recycling Industries (ISRI) applauded the National Conference of State Legislatures (NCSL) for joining the growing chorus of state leaders opposing Congressional attempts to impose a problematic federal solution to combat metal theft. In a letter sent earlier this month to all U.S. Senators, NCSL wrote that a federal metals theft law “may preempt some state laws and hinder the work that is underway in the states to battle this problem.”

“A federal metals theft law is simply unnecessary since all 50 states have already enacted metals theft legislation,” said Robin Wiener, president of ISRI. “Recyclers across the country have worked closely with law enforcement and elected officials to pass strong legislation to effectively address the specific needs of their communities. A federal law would only add a layer of complexity and confusion for federal, state, and local law enforcement, prosecutors, and recyclers.”

In the 113th Congress, S. 394 was introduced in an effort to reduce metals theft. Unfortunately, the legislation contained a number of provisions in conflict with state laws while adding a layer of bureaucracy leading to confusion for stakeholders. No bill has yet been introduced this Congress, but an attempt was recently made to use similar language as part of an amendment offered to the National Defense Authorization Act. In response, NCSL issued its letter outlining a number of its concerns, including the use of uniform standards. The letter stated, “The current state laws regarding metal theft contain differences, but do so in order to address each state’s particular needs. Uniform standards may lead to confusion rather than clarity regarding whether state or federal laws apply. This may hinder the progress made in enforcing metal theft on a state-by-state basis, and may also have a negative effect upon prosecution efforts.”

Steel Institute says EPA rules will raise cost of electricity

The White House announced final Environmental Protection Agency (EPA) regulations requiring existing electricity generating utilities to reduce carbon dioxide (CO2) emissions by 32 percent in the next 15 years, and effectively mandate that new coal-burning power plants use unviable carbon capture and storage technology. The American Iron and Steel Institute (AISI) expressed strong concerns about the regulations, saying they will raise electricity costs for domestic steel companies and threaten the industry’s ability to remain internationally competitive.

Thomas J. Gibson, president and chief executive officer of AISI, pointed out that the steel industry competes with producers in countries where energy costs are often subsidized. He said, therefore, “Limitations on CO2 emissions instituted in the U.S. must also apply at the same level of stringency to other major steel producing nations, such as China. Otherwise, steel production and manufacturing jobs will shift to other nations with higher rates of greenhouse gas emissions.”

Steel import market share at 27 percent in July

Based on the Commerce Department’s most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of July total 3,241,000 net tons (NT). This was a 4 percent increase from the 3,112,000 permit tons recorded in June and a 6 percent increase from the June preliminary imports total of 3,049,000 NT. Import permit tonnage for finished steel in July was 2,538,000, up 3 percent from the preliminary imports total of 2,458,000 in June. For the first 7 months of 2015 (including July SIMA and June preliminary), total and finished steel imports were 24,911,000 NT and 20,370,000 NT, respectively, down 0.2 percent and up 9 percent from the same period in 2014. The estimated finished steel import market share in July was 27 percent and is 31 percent year-to-date (YTD).

Finished steel imports with large increases in July permits vs. the June preliminary included standard rails (up 345 percent), reinforcing bars (up 137 percent), cold rolled sheets (up 18 percent), heavy structural shapes (up 15 percent) and hot dipped galvanized sheets and strip (up 13 percent). Products with significant YTD increases vs. the same period in 2014 include line pipe (up 55 percent), reinforcing bars (up 53 percent), standard pipe (up 32 percent), sheets and strip galvanized hot dipped (up 20 percent), tin plate (up 15 percent), plates in coils (up 14 percent), heavy structural shapes (up 13 percent), cold rolled sheets (up 13 percent) and cut lengths plates (up 12 percent).

In July, the largest finished steel import permit applications for offshore countries were for South Korea (298,000 NT, down 1 percent from June preliminary), Turkey (269,000 NT up 48 percent), China (262,000 NT, up 48 percent), Japan (149,000, down 26 percent) and Germany (149,000 NT, down 2 percent). Through the first seven months of 2015, the largest offshore suppliers were South Korea (3,345,000 NT, up 6 percent from the same period in 2014), Turkey (1,898,000 NT, up 73 percent) and China (1,770,000, down 1 percent).

Pennex Aluminum to expand and adds jobs at Ohio facility

Pennex Aluminum Company officially unveiled a \$38 million state-of-the-art expansion which nearly triples the size of the Leetonia, Ohio aluminum extrusion and fabrication facility. The expanded 275,000 sq.ft. facility features two aluminum press lines, including an innovative 12” press line. Each press gives Pennex the capability to create specialized and customized aluminum products.

With the expanded facility in Leetonia comes additional shifts and more than 65 new jobs, with the potential to add even more jobs in the coming years.

The \$38 million expansion project was supported in part by a 45 percent, 6 year tax credit from the State of Ohio, a 15 year tax abatement from the Village of Leetonia, and a partnership with Columbiana County.



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Plate and Structural	per gross ton	160.00	174.00	170.00	220.00	242.00
#1 & 2 Mixed Steel	per gross ton	160.00	175.00	169.00	220.00	220.00
Shredder Bundles (tin)	per gross ton	108.00	100.00	111.00	145.00	155.00
Crushed Auto Bodies	per gross ton	108.00	100.00	111.00	145.00	155.00
Steel Turnings	per gross ton	89.00	89.00	79.00	98.00	120.00
#1 Copper	per pound	2.00	2.01	2.10	2.39	2.20
#2 Copper	per pound	1.88	1.89	2.10	2.15	2.10
Aluminum Cans	per pound	.45	.45	.55	.55	.47
Auto Radiators	per pound	1.51	1.50	1.52	1.60	1.60
Aluminum Core Radiators	per pound	.45	.46	.50	.49	.45
Heater Cores	per pound	1.10	1.05	1.10	1.05	1.30
Stainless Steel	per pound	.39	.40	.50	.53	.52

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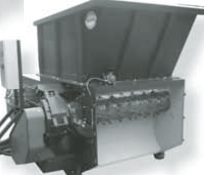
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AUTOMOTIVE

KAR Auction reports revenue growth

Quarterly dividend of \$0.27 per common share to be paid

KAR Auction Services, Inc. (reported its second quarter financial results for the three months ended June 30, 2015. For the second quarter of 2015, the company reported revenue of \$658.3 million as compared with revenue of \$585.6 million for the second quarter of 2014, an increase of 12 percent. Adjusted EBITDA for the quarter ended June 30, 2015 increased 10 percent to \$170.0 million, as compared with adjusted EBITDA of \$154.1 million for the quarter ended June 30, 2014. Net income for the second quarter of 2015 increased 17 percent to \$59.5 million, or \$0.41 per diluted share, as compared with net income of \$50.8 million, or \$0.36 per diluted share, in the second

quarter of 2014. Adjusted net income per diluted share for the quarter ended June 30, 2015 increased 10 percent to \$0.46 versus adjusted net income per diluted share of \$0.42 for the quarter ended June 30, 2014.

For the 6 months ended June 30, 2015, the company reported revenue of \$1,290.7 million as compared with revenue of \$1,169.4 million for the 6 months ended June 30, 2014, an increase of 10 percent. Adjusted EBITDA for the 6 months ended June 30, 2015 increased 10 percent to \$332.2 million, as compared with Adjusted EBITDA of \$301.2 million for the 6 months ended June 30, 2014. Net income for the first 6 months of 2015 increased 59 percent to \$114.0

million, or \$0.79 per diluted share, as compared with net income of \$71.5 million, or \$0.51 per diluted share in the first 6 months of 2014. Net income for the 6 months ended June 30, 2014 was negatively impacted by \$19.4 million (\$0.14 per diluted share) resulting from the company's refinancing activities. Adjusted net income per diluted share for the 6 months ended June 30, 2015 increased 6 percent to \$0.88 versus adjusted net income per diluted share of \$0.83 for the 6 months ended June 30, 2014.

The company also announced a cash dividend of \$0.27 per share on the company's common stock. The dividend is payable on October 1, 2015, to stockholders of record as of the close of business on September 23, 2015.

Alternative fuel vehicle rebates continue in Pennsylvania

The Department of Environmental Protection (DEP) will continue Pennsylvania's Alternative Fuel Vehicle Rebate Program, which provides \$2,000 rebates to commonwealth residents for large battery system plug-in hybrid electric and battery electric vehicles. DEP provides these rebates as incentives to assist Pennsylvanians with the incremental cost of purchasing an alternative fuel vehicle.

To qualify, the vehicle must be registered in Pennsylvania, operated primarily in-state, and be purchased no more than six months before the rebate application is submitted. The rebates are funded by the Alternative Fuels Incentive Grant Program, which is supported by a gross receipts tax on utilities.

Large-battery vehicles that have battery system capacities equal or greater than 10 kilowatt hours (kWh), including models such as the Nissan Leaf, Ford Focus, BMW, Tesla, and Chevy Volt, are eligible for the highest rebate amount of \$2,000. DEP is also extending rebates of \$1,000 for plug-in hybrid electric vehicles and battery-electric vehicles with battery system capacities of less than 10 kWh, including models such as the Toyota Prius plug-in, Ford C-Max Energi, Ford Fusion, and Honda Accord.

Rebates of \$1,000 are being extended for natural gas, propane, hydrogen, or fuel cell vehicles, such as the CNG powered Honda Civic or any 2014-15 CNG powered car or pickup truck. CNG original equipment, manufacturer retrofits, or certified conversions to CNG or propane are also eligible for the \$1,000 rebate. A \$500 rebate is available for electric motorcycles and scooters.

There are only a limited number of rebates available at \$2,000. The rebate program offered will be reassessed upon payment of the first 250 rebates at \$2,000 or December 31, 2015, whichever occurs first.

Salvaging Millions

by Ron Sturgeon
Autosalvageconsultant.com

Tools for success – an ongoing series

Learn marketing and advertising

The first article in this series listed more than 25 tactics to increase your business success, all based on my personal experience. I started with nothing and didn't get to college, so I know you can achieve maximum success regardless of your level of education. Each of the successive articles takes a closer look at one of the tactics from the first article.

Learn marketing and advertising. Of course, you need good products and services, but without good marketing you will likely underachieve or even fail. Know your customers. Have a unique selling proposition. Make the customer king; be sincere and passionate about it. If you aren't a creative marketer, find someone to help you in this area.

Who are your customers? It's not everyone who drives past your place; those days are over. Are you wholesale or retail? Different customers expect different things, including pricing, warranties and service. If you are predominantly late model, collision repair shops are your customers, and they are very sensitive to your quality and service levels, for instance.

If the above describes your business, my advice is don't even waste money marketing to garages, in most cases, or retail. Your average invoice is high, the small retail sales are a waste of your time and you likely don't need anything but a bold listing in the yellow pages. Don't bother wasting marketing dollars on a yellow pages display ad.

Mechanical shops are one notch down in the age of cars you dismantle. They are obviously interested in the mechanical warranties you offer on parts.

Retail is a different animal, and about the only recyclers making money in retail are You-Pull-Its. The days when you could be everything to everybody are over. In today's brave new world, you better know the answers to some key marketing questions:

What is your unique selling proposition? What makes you different from your competitors? Can you articulate it in writing? They don't want to hear rhetoric like our quality is higher. Even in the rare cases when a quality claim is true, today's consumers are jaded. Every yard claims to have the best quality parts. Can you prove it? Does it show in ways that matter to your buyer?

Perhaps your warranties or your delivery capabilities are better. Be able to say how. Next day delivery doesn't mean at 5 pm anymore; the serious shops want their parts by noon. By noon is a unique selling proposition that will exceed 80 percent of your competitors.

No lip service. Make your parts quality, warranty, and service level no-hassle best of class. Mean it. Walk it. Train it. Breathe it. Believe it. Empower your people to make the customer happy at virtually all cost.

Need help? It's ok, as discussed in prior articles in this series, to surround yourself with people who can do things you can't, won't or shouldn't do.

Novelis unveils high-strength alloys for automotive use

Novelis disclosed the development of Novelis Advanz™ 7000 series of high-strength alloys designed for safety critical components of vehicle structures.

Two to three times stronger than any automotive aluminum used in high volumes today, Advanz 7000 series products can be used to manufacture components such as bumper systems, crash ring components and door intrusion beams. The new alloy series will offer a significant weight reduction when compared to current high strength steels in the marketplace, enabling automakers to further reduce the weight of vehicles while ensuring high levels of passenger safety.

"As more automakers look to reduce vehicle weight and improve fuel economy, high-strength aluminum alloys are playing an increasingly critical role in vehicle design," said Jack Clark, senior vice president and chief technical officer for Novelis.

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This article was provided by autosalvageconsultant.com, which was formed in 2001 by recyclers for recyclers, to help them improve their businesses.

WASTE

Alpine Waste signs deal with Golden, CO

Alpine Waste & Recycling has agreed to provide the City of Golden, Colorado with waste hauling and recycling services on an exclusive basis in a deal that will add 3,400 homes to the company's operations.

The five year arrangement includes access to Alpine's all encompassing, single stream Altogether Recycling Program, which allows residents to recycle more materials in the easiest, most efficient manner.

In its website page, the City of Golden lists numerous advantages in connection with the Alpine partnership:

- Dedicated web page for Golden customers.
- Dedicated phone line for Golden customers.
- New recycling materials to be accepted into Alpine's system.
- Automated Sustainability Reports that track recycling success rates.

The arrangement with Golden increases Alpine's home pick-up operations by nearly nine percent. Alpine is the largest, privately held waste hauling company in Colorado, with the majority of its revenues coming from its commercial services.

Progressive Waste Solutions launches automated waste collection service

Progressive Waste Solutions Ltd. officially launched its new automated waste collection service in the municipality of Chatham-Kent, Ontario.

The benefits of automated waste collection include:

- Wheeled containers are easier, more maneuverable and safer for residents because there is no carrying or lifting of heavy garbage bags or cans;
- Automated collection virtually eliminates street litter after pickups and the containers' lids keep crows, skunks, raccoons and other animals away from waste materials;
- The new cart is fully compatible with the municipality's curbside bylaw and three bag limit;
- Collection crews stay in their vehicles reducing the chance for employee injuries associated with manual collection;
- Improved safety for the public as automated collection routes are designed for right-side only collection reducing the number of unprotected left turns on the streets.

Progressive Waste distributed the new waste collection carts to each residence in the community of Chatham. The carts are free of charge and contain a flyer explaining the proper use of the



cart. The new automated waste collection system will be rolled out to smaller communities within Chatham-Kent later this summer and into the fall.

Progressive Waste completed a successful trial run of the new service in the communities of Tilbury and Wallaceburg earlier this year. The company's local

and senior management teams have many years' experience implementing automated collection services. The official launch with the Municipality of Chatham-Kent was part of an information program to build awareness and understanding of the new carts use and the collection service.

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BUSINESS BRIEFS

Novelis appoints Steve Fisher president and CEO

■ The Novelis board of directors has named Steve Fisher as its president and chief executive officer, effective immediately. Fisher previously held the position of chief financial officer and has been serving as Interim president and chief executive officer since April 2015. He will continue to serve as chief financial officer until a successor is named.

Since joining the company in 2006, Fisher has served in a number of positions. During his tenure as chief financial officer, Novelis invested approximately \$2 billion to grow its business. Previously, Fisher served as vice president of strategic planning and corporate development where he spearheaded major strategic, corporate and financial transactions across the company, most notably the discussions that led to the acquisition of Novelis by Hindalco in 2007.

C & D Scrap Metal opens second location

■ C&D Scrap Metal, one of the original scrap metal dealers in Houston, is expanding with a second scrap recycling location slated to open in early Fall 2015 in Northwest Houston.

Owner and chief executive officer Dennis Laviage and vice president Cynthia Laviage have specialized in sales and service of scrap metal in the greater Houston area since 1979. With a new eight acre location, C&D will create new jobs in Houston and provide convenience to customers in the Northwest Houston area.

Caterpillar to produce vocational trucks in Texas

■ Caterpillar Inc. will begin independently designing and manufacturing its vocational truck product family at its plant in Victoria, Texas. The plant, which opened in 2012, currently produces hydraulic excavators.

Caterpillar launched its first vocational truck, the CT660, in the North American market in 2011. Two more models have since been added to the lineup, the CT680 and CT681. To date, Caterpillar has worked with Navistar for the products' design and build, which are currently manufactured in Escobedo, Mexico.

The transition process will begin immediately, with production expected to begin in the first half of next year. Caterpillar Victoria will continue to produce excavators, and the addition of the vocational truck production is expected to add around 200 new jobs at the facility.

Caterpillar dealers will continue to sell and support Cat vocational trucks.

Colonial Metals hires buyer and trader of scrap

■ Colonial Metals Co., a brass and bronze ingot maker located in Columbia, Pennsylvania, has hired Scott Greenberg as a buyer and trader of scrap metals.

Greenberg previously worked for GLE Scrap located in Warren, Michigan. Greenberg brings 25 years of experience as a copper consumer, exporter and scrap dealer.

ISRI's Pickard named to advisory committee

■ The Institute of Scrap Recycling Industries (ISRI) disclosed that chief economist and director of commodities Joe Pickard was selected to serve on the Industry Trade Advisory Committee on Building Materials, Construction, and Nonferrous Metals (ITAC-9). Pickard will serve as the representative of the U.S. scrap recycling industry.

The Industry Trade Advisory Committees are joint partnerships between the Office of the U.S. Trade Representative and the U.S. Department of Commerce. They work by bringing together business leaders in order to develop U.S. trade policy regarding their respective industry.

Of the \$21 billion of scrap commodities exported from the U.S. last year, non-ferrous metals including copper, aluminum, lead, zinc, and nickel scrap together accounted for \$6.7 billion of export sales. Pickard's new role in keeping the relevant U.S. government agencies informed of current and potential barriers to the free and fair trade of non-ferrous scrap not only benefits ISRI members by helping to maintain open markets and promote U.S. exports, but is also consistent with ISRI's longstanding commitment to free trade.

A teacher asked her students to use the word "beans" in a sentence. "My father grows beans," said one girl. "My mother cooks beans," said a boy. A third student spoke up, "We are all human beans."

Waste Pro acquires three different haulers

■ Waste Pro has acquired Waste Away Services, LLC, a full service hauling company serving approximately 1,850 customers in Elberton, Georgia. The operations will become part of Waste Pro's existing Athens, Georgia location adding both staff and equipment.

Waste Away Services is one of three residential and commercial waste service and disposal companies acquired by Waste Pro in the past three months.

In April, Waste Pro acquired Henson Waste Disposal, adding the service operations into their Asheville, North Carolina division.

The third acquisition occurred in May, when Waste Pro acquired Liberty Waste Services. Liberty Waste is tucked in with the Waste Pro Charlotte, North Carolina regional operations.

Frank Sraj joins Mayfran as VP of sales and marketing

■ Mayfran International has appointed Frank Sraj to vice president of sales and marketing, effective immediately. In his new role, Sraj will report directly to the company's president and will be responsible for the pursuit of opportunities that meet and grow the company's revenue and profit goals.

Sraj is a proven sales and marketing executive with a successful record spanning more than 30 years. Sraj holds a B.S. in Engineering from Cleveland State University and a MBA from Xavier University.

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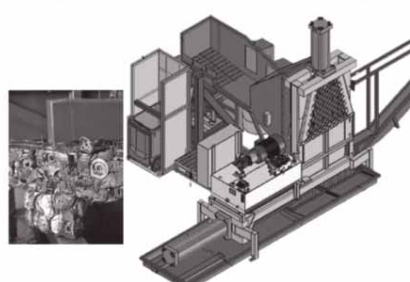
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BUSINESS BRIEFS

CalRecycle gets new environmental champion

■ California Governor Jerry Brown has appointed Scott Smithline to serve as the director of the State's Department of Resource Recovery and Recycling (CalRecycle).

Smithline worked at the environmental organization Californians Against Waste from 2003 to 2012, prior to being appointed CalRecycle's assistant director for policy development in 2012.

CalRecycle is charged with both regulating the state's waste management industry and supporting efforts to increase recycling. The agency administers the Beverage Container Recycling and Litter Reduction Act (Bottle Bill program), as well as programs for recycling electronic waste, tires, mattresses, and carpet, among other products that have proven to be hard to manage at the end of their useful lives. CalRecycle has over 700 employees and an overall budget of \$1.3 billion, the vast majority of which is paid out to consumers, recyclers and recycled product makers as recycling incentives.

As director, Smithline will be responsible for implementing CAW-sponsored AB 341 (Chesbro, 2011), recently signed legislation that will increase California's recycling goal to 75 percent by 2020, as well as new requirements for businesses and apartments to recycle both traditional recyclables and organic waste. In addition, the department plays a crucial role in meeting the state's climate goals, including reducing greenhouse gas emissions from landfills and supporting the reintroduction of recycled materials into the state's manufacturing economy.

Casella Waste appoints James O'Connor to board

■ Casella Waste Systems, Inc. has appointed waste management industry veteran, James E. O'Connor, to Casella's board of directors. O'Connor is the former chairman of the board and chief executive officer of Republic Services.

He brings to the Casella board over 40 years of experience in the waste management industry, including extensive leadership experience, as well as experience serving on the boards of directors of publicly-traded companies in a variety of industries, including waste management, transportation and energy.

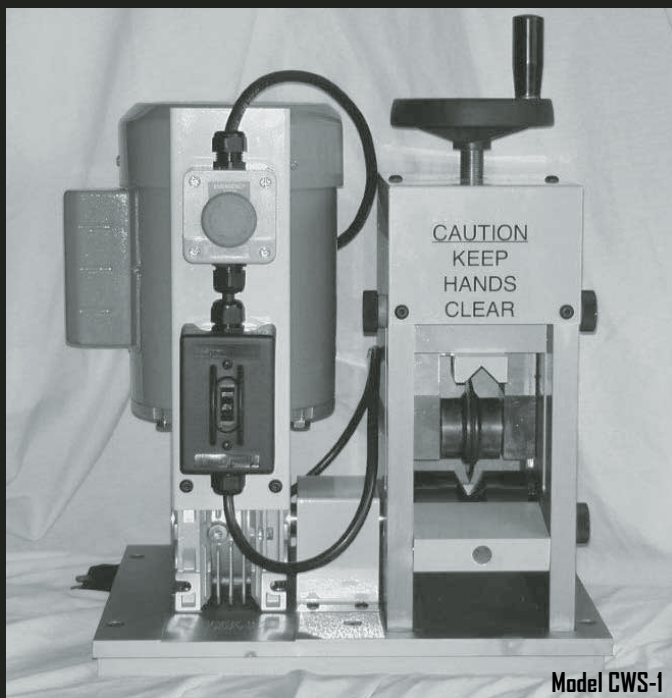
During his 13 years serving as chief executive officer of Republic Services, including serving the last eight years as both chairman and chief executive officer, O'Connor led the transformation of Republic Services from a company with \$1.4 billion in annual revenues into one with more than \$8 billion in revenues, making it one of the largest waste management companies in the world. Among O'Connor's many achievements at Republic Services was its \$12.1 billion transformative acquisition of Allied Waste in December 2008.

Prior to joining Republic Services, O'Connor spent close to 30 years at Waste Management, Inc.

A boy asked his father, "Dad, are bugs okay to eat?" The dad replied, "That's disgusting to talk about during dinner." Afterwards, he asked, "Now, son, what did you ask me?" The boy replied, "Never mind. There was a bug in your soup, but it's gone now."

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BUSINESS BRIEFS

Screen Machine hires national sales director

■ Screen Machine Industries (SMI) has hired Jody Beasley as national sales director of the U.S. and Canada.

Beasley comes to SMI with 18 years of industry experience related to the Bobcat, Doosan and Ditch Witch product lines.

Beasley is relocating to the Columbus, Ohio area from his current residence in Texas.

EnviroVantage wins Business of the Year award

■ EnviroVantage of Epping, a full service commercial, industrial and residential environmental and specialty services contractor, was recently honored by The Exeter Area Chamber Of Commerce as the winner of their 2015 Business Of The Year in the category of real estate, construction and engineering.

The judges selected the winners based on their significant involvement and generous contributions made to both their industry and community. Each company needed to effectively demonstrate how they go above and beyond the normal daily activities and make a major positive impact in the state of New Hampshire.

Timken to acquire Carlstar Belts Business

■ The Timken Company has reached an agreement with American Industrial Partners to acquire the Carlstar Belts Business, a North American manufacturer of belts used in industrial, commercial and consumer applications including Carlisle, Ultimex and Panther, among others. The transaction is expected to be accretive over the balance of 2015. For the 12 months ending June 30, 2015, Carlstar Belts sales were approximately \$140 million.

The transaction, expected to close in the third quarter of 2015, is subject to customary government and regulatory approvals and will be funded with a combination of cash and debt.

Impact Air Systems expands on West Coast

■ Impact Air Systems has opened new corporate offices and operations in California to further cement their commitment and confidence in the American market.

The decision to expand to the West Coast allows Impact to offer American engineering excellence via Gary Price, who has over 30 years of experience in the industry.



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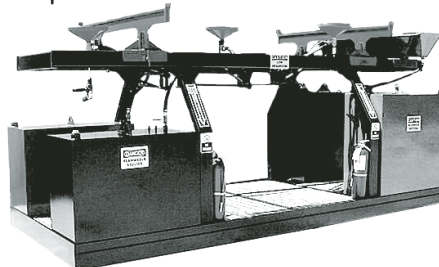
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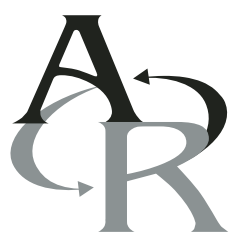
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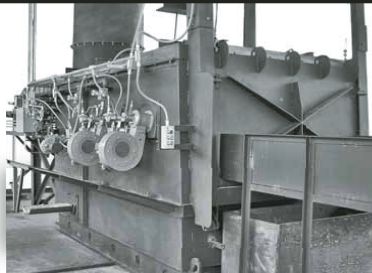
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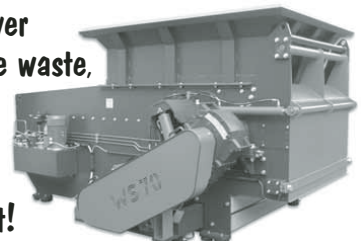
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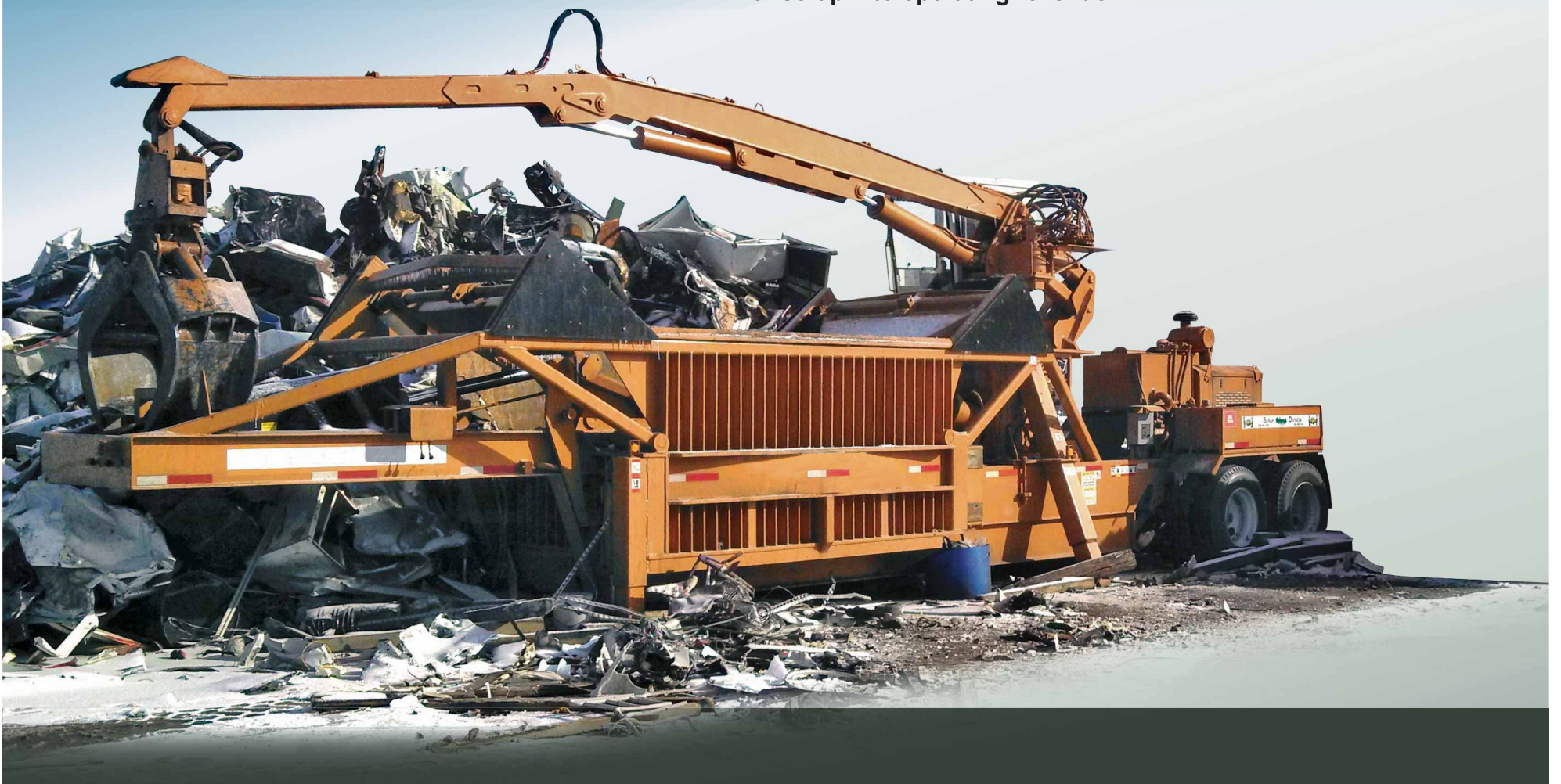
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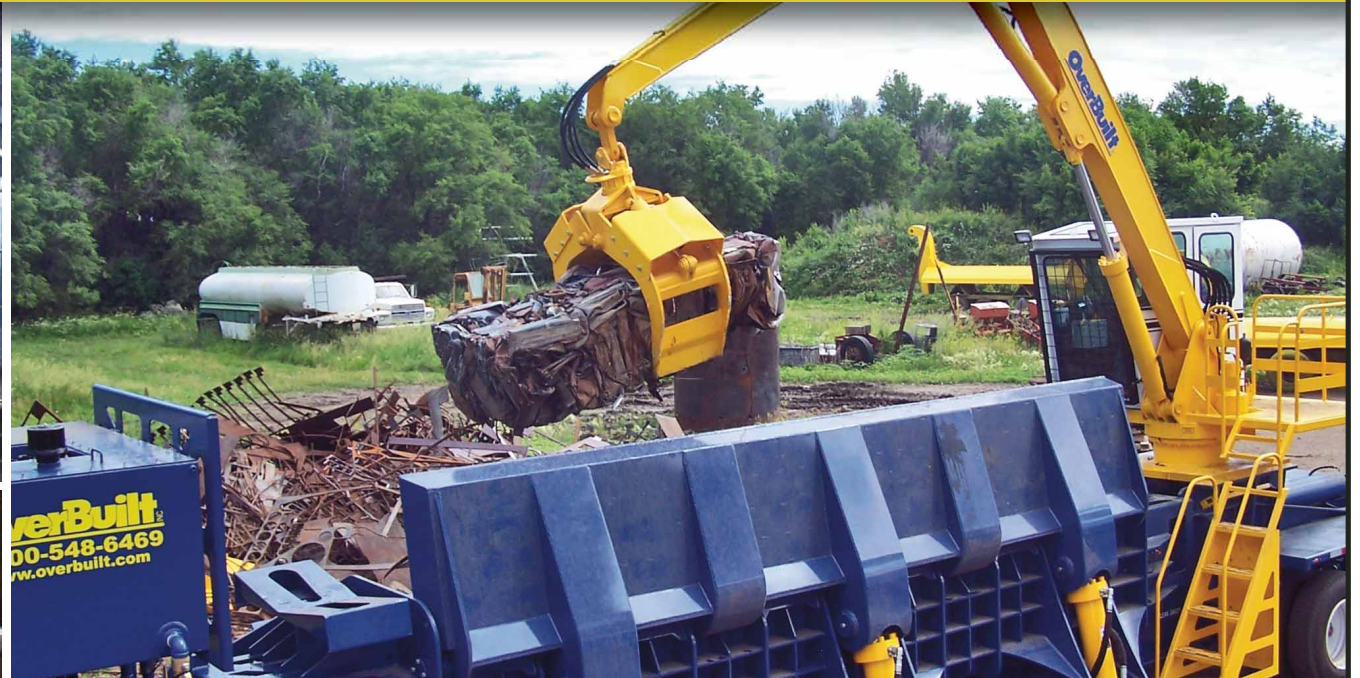
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SECTION B

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SEPTEMBER 2015

Crumb rubber or organic infill for synthetic turf?

by MIKE BRESLIN

mbreslin@americanrecycler.com

Playing fields around the world use artificial turf for a variety of aesthetic and practical reasons. Unlike natural grass, it stays bright green year round whether indoors or outdoors despite weather conditions. It rarely has bald spots from hard play, stands up to heavy use and doesn't need to be weeded, watered or cut. The fields look great on TV, too.

Artificial turf itself, of course, is made of synthetic fibers made to look like natural grass, but today's third generation synthetic fields are often stabilized with a layer of sand and layers of crumb rubber, or most recently with granular, organic substances to help soften impacts on players. Organic infill is in its infancy. By far, crumb rubber is the primary material used. It not only add cushioning and springiness to protect athletes, but surfaces made from crumb rubber dry quickly, drain moisture, reduce dust and mud and minimize freezing.

Like many apparently good things of science, synthetic turf infilled with crumb rubber made from scrap tires has its critics, primarily those concerned with health issues emanating from toxic elements contained in the recycled tire rubber. The U.S. EPA, in its most recent evaluation of crumb rubber, determined that it was not possible for the agency to reach "comprehensive conclusions without the consideration of additional data." In government-



Artificial turf with organic infill at Riverdale Country Day School, New York City.

PHOTO COURTESY OF GEOTURF USA

"It's clear we need to do something with scrap tires," said Cox. It's a serious problem because we generate so many every year. So it's important to find uses for that material, but it should not be in ways that compromise health and safety. There are other ways to use scrap tires. For example, using crumb rubber as an additive to make rubberized asphalt for paving. Crumb rubber in a sports field does not actually divert that material from landfill; it just postpones it, because at end of life on the field it usually goes to a landfill.

A California Department of Resources Recycling and Recovery report issued in July, 2014 stated that synthetic turf sales have been strong for several years and currently about 9,500 fields have been installed nationally, with about 900 in California. The total number of fields installed annually has continued to grow; however, about 22 percent of the fields are replacements, suggesting that demand for new fields has been flat.

In California, ground rubber in the 10 to 20 mesh range is used as infill between the blades of grass in synthetic turf and in a variety of running tracks and other applications. The statewide use of California-produced ground rubber in synthetic athletic fields in 2013 was estimated to be 28.1 million pounds, a decrease of 7 percent over 2012 levels.

The report also said that as synthetic turf fields reach the end of their useful life, there is growing interest in

reclaiming the fields and reusing the materials, including the ground rubber infill component. Industry representatives indicated that within 3 years, 75 fields per year could be reclaimed in California alone, producing approximately 15 million pounds of used ground rubber. Reclaiming this ground-rubber infill and using it in new applications is a relatively new activity, but there is little collective experience in doing so. It's possible to do if the challenges can be addressed, such as those associated with removing contaminants and ensuring that original performance specifications can be met.

The report concluded that in recent years, some environmental organizations have raised potential concerns about environmental health and safety issues related to synthetic turf fields, and a few local agencies have chosen to avoid the products. However, these concerns appear to be diminishing.

"I think there's a lot of research that has not yet been done in terms of the health and safety questions related to crumb rubber from scrap tires," said Cox. "We don't have all the information. One point I have commonly made is that there's a substance called carbon black which is a major component of tires, composing about 20 to 30 percent of the tire. Carbon black has been identified as cancer causing here in California and also by international organizations. It seems clear that people playing on sports fields with recycled crumb tire rubber are being

exposed to carbon black. There have not been studies that have pinpointed whether there are specific cancers linked to that exposure. But we do know anecdotally that there's an ever increasing number of athletes who have stepped forward and said that they played a lot on synthetic turf fields infilled with crumb rubber and developed cancer. I think it's better to be safe than sorry. I think we could do the kind of expensive, time-consuming studies that would show it's a problem. But, in this case let's take the better, safer than sorrier approach because there are other safer in-fill materials. Why don't we switch to those?"

Liberty Tire Recycling is the largest recycler of scrap tires in North America with a capacity to produce more than 250 million pounds of crumb rubber annually for a wide variety of innovative uses. We asked Steve Bigelow, Liberty's vice president of sales and marketing about its crumb rubber products used on athletic fields and associated health issues.

"The crumb rubber category in general is growing overall year-over-year," says Bigelow. "There have been a few occasions where individual localities have decided not to use it. Could we have more growth if those inaccurate stories were not out there? Probably. But we are still growing in a considerable way every year.

Obviously, there is competition for alternative materials. Our customer base

See SYNTHETIC TURF, Page B7



Close up of artificial turf infilled with GeoTurf USA's organic product made from coconut fibers and cork.

PHOTO COURTESY OF GEOTURF USA

speak, further studies always seem to be needed.

American Recycler News spoke with Caroline Cox, research director for the Center for Environmental Health (CEH) and asked if there are dangers in using recycled tire rubber on sports fields. Founded in 1996, CEH is a non-profit that has led a nationwide effort to protect people from toxic chemicals. It also helped draft the law that took lead out of children's products, and fought to force manufacturers to remove lead, arsenic, and other toxins from a number of products.

A Letter from the Editor

Readers,

Last month, sometime after the one year anniversary of the shooting of Mike Brown in Ferguson, Missouri, protests once again broke out when white officers shot and killed black 18 year old Mansur Ball-Bey. Officers arrested nine and deployed tear gas to control groups of protestors who blocked traffic in intersections and threw bottles and debris at responding officers. Cars and buildings were once again set on fire, and even an American flag was set alight.

Protestors chanted the "Black Lives Matter" motto that's been gaining steam across the nation. To listen to the protestors, one would presume that this incident was another racially motivated slaying of an innocent youth.

But here's the thing – evidence points to the fact that Ball-Bey was pointing a firearm at officers when he was shot. In fact, the officers serving the warrant for the home from which he fled eventually found three guns in addition to the one Ball-Bey used, as well as crack cocaine.

And that's what I don't understand about the recent Black Lives Matter movement. Of course black lives matter – but so do white lives and lives of every other color and creed. The lives of those white officers also mattered, but those protesting (or, more accurately, rioting) are quick to ignore the fact that the deceased presented an immediate lethal threat to the lives of the officers before he was shot.

Mike Brown, the original catalyst for the movement, had committed a violent robbery immediately prior to assaulting the officer that eventually shot him. The last time I checked, robbery and brandishing a firearm are perfectly adequate grounds for being shot by the police. Yet these rioters ignore the criminal behaviors of the deceased and elect the easier narrative that the shootings were racially motivated.

Do the police sometimes use excessive force? Yes. But failing to acknowledge the criminal behaviors of some of the individuals they shoot cheapens the discussion that our country needs to have about racial relations. And responding to injustices done by the police with more violence and lawlessness does nothing to further the Black Lives Matter cause.

Until we can have that honest and frank discussion, I have a small suggestion – don't break the law. While even that may not be enough to protect one completely from unfortunate encounters with the police, it surely goes a long way towards ensuring that one isn't shot by them.

Until next month,



Esther Fournier
Editor & Publisher

Federal tire legislation focuses on safety, fuel efficiency and sales competitiveness

Congress will consider legislation to create minimum tire performance standards for tire fuel efficiency and wet traction; improve manufacturers' ability to contact consumers in the event of a tire recall; and create a web-based tool for consumers and tire dealers to more easily determine whether a tire is subject to a safety recall.

Sen. Lindsey Graham (R-SC) introduced the Tire Efficiency, Safety and Registration Act, S.1741. Sen. Sherrod Brown (D-OH) and Sen. Roger Wicker (R-MS) cosponsored the bill. S. 1741 is strongly supported by the Rubber Manufacturers Association (RMA), the national trade association for tire manufacturers that produce tires in the U.S.

"This legislation will significantly help improve consumer safety, vehicle fuel economy and industry global competitiveness as well as regulatory consistency," said Dan Zielinski, RMA senior vice president, public affairs.

The bill contains three sections:

Minimum Tire Performance Standards for fuel efficiency and wet traction.

Establishing a minimum tire fuel efficiency performance standard will eliminate the least fuel efficient tires from the passenger tire market, while a wet traction performance standard will help ensure tire fuel efficiency improvements are achieved.

Several other nations have already adopted similar standards. Adopting these standards helps to ensure that the U.S. does not become a dumping ground for lower performing tires.

"RMA members support these performance standards to help consumers and the nation conserve fuel without compromising wet traction safety performance," Zielinski said.

Improve consumer notification of tire recalls.

Act 1741 will require tire sellers to register tires to boost registration rates and improve the ability of tire manufacturers to directly notify consumers of a tire recall so that tires with potential safety issues can be quickly removed from service and replaced.

In 1982, federal law was changed from requiring tire sellers to register tires at point of sale to only requiring tire sellers to provide the means to register tires to consumers. This change resulted in the tire registration rate dropping from nearly 50 percent to about 15 percent.

Tire manufacturers are currently required to notify consumers who may be affected by a tire recall. But this is made difficult by the current low tire registration rates. Tire dealers now are required only to provide a paper registration card to every consumer who purchases new tires to document the tire identification number (TIN). The consumer then should complete the card with contact information and mail it to the tire manufacturer who keeps the information in the event of a tire recall.

By requiring registration at the point of sale, registration rates will increase and manufacturers will be better able to meet their requirement to notify consumers of a tire recall.

Create a consumer friendly lookup tool to search tire recalls.

All tire recalls are reported to the National Highway Traffic Safety Administration (NHTSA) yet the agency does not maintain an easy, consumer-friendly database to search for tire recall information.

Act 1741 would require NHTSA to develop a tire recall lookup tool searchable by TIN to enable consumers and tire sellers to quickly determine whether a tire is subject to a recall.

A searchable system for automobile recalls using the vehicle identification number is available on NHTSA's web site.

"Together, these provisions will improve the ability for tire manufacturers to notify consumers in the event of a tire recall, boost the competitiveness of the U.S. tire manufacturing industry and help to harmonize an often complicated global regulatory structure," Zielinski said. "We will continue to work with Sens. Graham, Brown, Wicker and others to enact this measure."

EPA awards teacher for innovation

The U.S. Environmental Protection Agency (EPA) has awarded middle school teacher Anne Moore from the Goochland County Public Schools in Virginia with the presidential Innovation Award for Environmental Educators (PIAEE).

"Anne Moore has spent 16 years teaching students about the importance of environmental conservation and how their actions affect health and the environment," said EPA regional administrator Shawn M. Garvin.

Moore has developed programs that encourage her students to think critically to solve environmental problems. One program she developed, "Trash to Treasure," requires students to analyze local waste management practices and research how those practices alter the environment.

Another of her projects had students conduct research on ways that illegally discarded tires can be retrieved and recycled. This project led to Chesterfield County implementing an annual "Tire Amnesty Day," that allows members of the community to bring unwanted tires for proper disposal.

Bridgestone plant takes step toward higher safety

Bridgestone Americas' Aiken County, South Carolina passenger tire (PSR) plant has achieved one million man hours without a lost time accident.

During its 17 years of operations, the Aiken PSR plant has been the recipient of multiple safety awards and recognitions, including:

- South Carolina Voluntary Protection Program Palmetto Star Site (since 2001).

- Rubber Manufacturers Association Safety and Health Improvement Program Excellence Award.

- South Carolina Manufacturing Alliance Safety Excellence Award.

Bridgestone has an established safety program that includes training, evaluation of basic systems, internal audits and continuous improvement. Aiken PSR teammates participate in more than 20,000 annual pro-active safety activities that include identifying hidden dangers, behavioral safety observations and safety audits. Daily, monthly and quarterly meetings round out the focus on workplace safety and process safety management.

The Aiken PSR plant, which produces passenger and light truck radial tires, completed an expansion of its operations in 2013.

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Tires containing silica created

The Goodyear Tire & Rubber Company has begun using a next-generation silica to increase the fuel-efficiency of its tires. This new silica will be first used in the Goodyear EfficientGrip SUV tire, which was launched in Latin American markets and will be introduced in other regions within the next year.

For more than a decade, Goodyear researchers worked with PPG Industries to examine the effects of chemically treated silica on tire performance. The goal was to further improve rolling resistance without have a detrimental effect on traction in wet conditions. In Goodyear's new EfficientGrip SUV tire, this next generation silica was used in a new tread compound and a new tread pattern to provide both improved rolling resistance and improved wet traction.

"Our customers around the world are demanding more fuel-efficient tires, but they want us to minimize the typical trade-offs," said David Zanzig, director of global materials science for Goodyear. "Our materials scientists worked in cross-functional teams and,

together with tire design and construction engineers, they derived an integrated solution that optimizes performance. This new silica plays a critical role in satisfying our customers' needs."

Silica is used as a reinforcing agent in tire tread compounds. Compared to carbon black, a traditional reinforcing agent for tires, silica reduces rolling resistance. Lower rolling resistance, in turn, improves a car's fuel economy.

In addition, this new silica – marketed by PPG Industries as AGILON® performance silica – has been shown to have processing advantages that also benefit the environment. Since it is easier to mix into compounds, factories can consume less energy in the tire production process and lessen emissions.

In its efforts to create more environmentally friendly tires, Goodyear has been exploring its options with silica. Last year, Goodyear reached supply agreements to purchase silica derived from the ash left behind after rice husks are incinerated.

Cooper Tire decreases landfill usage nearly 40 percent

Cooper Tire & Rubber Company released its third annual corporate social responsibility and sustainability report – "Responsibility the Cooper Way."

"As we begin our second century in the tire business, topics such as corporate social responsibility and sustainability are increasingly important," said Cooper chairman, chief executive officer and president Roy Armes. "This report details our goals and progress on environmental protection as well as technology and innovation, safety, and philanthropy. Cooper is making progress on these initiatives and is committed to continuing to work on and report on our progress to key stakeholders," he added.

Highlights from Cooper's sustainability report include:

•Energy usage: Cooper has been working for many years to reduce energy usage, a key resource in the production of tires. The company has reduced energy usage intensity by 12 percent since 2009, and based on 2014

production levels, the company saved approximately 0.7 trillion joules of energy per year, which is equivalent to approximately 14.5 percent of current energy use.

•Water usage intensity: Cooper has reduced water usage intensity by 8 percent since 2009.

•Landfill usage intensity: Cooper landfill usage intensity has decreased nearly 40 percent since 2009.

•Sustainable tire innovation: Cooper collaborates with a number of entities and partners on tire raw materials and design, training, regulatory matters, scrap tire management and other sustainability topics. For example, Cooper and a number of universities and public/private sector partners are working together to develop more sustainable tires. Cooper also recently completed work under a U.S. Department of Energy (DOE) grant to develop ultra-light weight fuel efficient tires, exceeding the project's goals.

Hercules recalls All-Trac tires

Hercules Tire & Rubber Co. is recalling approximately 90,000 All-Trac A/T tires because of a risk of tread separation, which can lead to a sudden loss of air pressure.

The tires being recalled were manufactured between June 2008 and May 2010 by Shandong Yongsheng Rubber Group Co. Ltd. at its plant in Dongying, Shandong, China, and are believed to be similar to Capital Precision Trac II tires that were recalled in 2014 by ITG Voma Corp.

In its recall notice, Hercules said its adjustment data did not indicate higher than usual adjustment rates or any unusual spikes in the adjustment rates for these tires. Nonetheless the private brand said that "out of an abundance of caution," it chose to recall voluntarily the All-Trac A/T SUV tires produced by Shandong Yongsheng without a full nylon cap overlay.

Hercules said Shandong Yongsheng began using a complete nylon overlay in May 2010 instead of the partial overlay used prior to that time.

The Hercules tires also were the subject of an investigation by the National Highway Traffic Safety Administration this spring after a

Brownsville, Texas-based trial lawyer sought NHTSA's intervention, citing the similarities between the Capital Precision Trac II and Hercules All Trac A/T.

Hercules is recalling seven lots of the All Trac A/T, all different sizes:

- 235/70R16 106T — DOT serial number JEKJ ECP 2508 2110;
- 235/75R15 109T XL — serial number JE KK DCP 2708 2110;
- 245/70R16 107T — serial number JE LJ ECP 2508 2110;
- 255/70R16 111T — JE MJ ECP 2508 2110;
- 265/70R16 112T — JE NJ ECP 2508 2110;
- 265/75R16 116T — JE NK ECP 3008 2110;
- 275/70R16 114T — JE RJ ECP 1309 2110

Hercules said it will notify owners – and its dealers will replace the tires – free, up to \$150 per tire. The distributor cited its Terra Trac AT II as a recommended replacement. Hercules said it will reimburse dealers up to \$15 per tire for labor involved.

Owners may contact Hercules customer service at 1-888-943-2402. Hercules number for this recall is 01-2015.

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EQUIPMENT SPOTLIGHT

Shredders

by MARY M. COX

maryc@americanrecycler.com

Industry sources predict that the tire and rubber recycling market will continue to strengthen.

Poised to respond to market demand, ECO Green Equipment recently announced the latest addition to their recycling equipment lineup – the ECO Monster – a new hydraulic powered single-shaft shredder for scrap waste tire applications. “This new technology will provide aggressive shredding capabilities to processors who demand the best efficiencies and low maintenance equipment features,” commented Brad Swenson, manager. The shredder is outfitted with a 180 kW (250 hp) custom hydraulic power unit which drives a Hagglunds motor. The ECO Monster churns through waste rubber, outputting rough shreds down to 2” to 8” inches in size. Volume production can be expected at an output of up to 12 tons per hour. It has a rotor length of 77”, which contains 18 fly knives and 9 bed knives for cutting. A hydraulic service door opens and reveals a cutting chamber containing a hefty set of cutting blades, knives, and a 32” diameter rotor. The uniquely designed knives are service friendly and can be quickly changed and rotated with a simple impact drill and torque wrench.

“This machine features the quickest blade change on a primary shredder in the industry. We’re happy to demonstrate how this shredder outputs rough shreds for TDA, TDF and

further downstream processing. TDF and TDA are almost 50 percent of the total market share of annual scrap tire uses in the U.S. with high demand coming from the cement kilns, pulp and paper mills, and utility boilers. ECO Monster is positioned to help processors grow these market segments more efficiently,” said Swenson. The shredder can also process other waste materials such as wood, plastics, and electronic waste for general waste reduction, even for further processing. ECO Green is based in the U.S. but provides products to the global market.



SSI Shredding Systems

Franklin Miller manufactures a full line of industrial and solid waste shredders. The company’s Taskmaster® TM3000 is a heavy-duty industrial shredder designed to reduce a high volume of rubber and other solid waste materials with its low speed, high torque design. The twin-shaft shredder is suitable for a variety of applications that demand high power, large throat openings and extra heavy-duty construction. Dave Schuppe, vice president, sales, described how “the design of the unit provides effective operation with low noise, sparking, dust or heat rise. Built for the highest level of performance and reliability using quality components, superior design and engineering, the TM3000 offers 5.5 heat-treated alloy steel hexagonal shafting, 2 cam cutters, a heavy steel plate and channel body construction and planetary gear drive. The unit can rip, tear and shred through a variety of tough solids, reducing the volume for further pro-



Granutech Saturn Systems

cessing or economical disposal. It can also reduce such items as: kitchen waste, metal, steel drums, wood pallets, cardboard, and more. With cutting chambers ranging from 8.5” to 40” and up to 72” long there is a Taskmaster shredder to suit almost any application.” Franklin Miller has been a leader in size reduction for over 95 years.

“As a complete system provider, Granutech-Saturn Systems offers leading edge, best-in-class tire recycling technology in an integrated system level solution, with a wide range of custom products excelling in operating efficiency, durability, and reliability, to generate clean rubber crumb or powdered rubber,” stated Mike Hinsey, vice president. Hinsey said the company’s product options include single rotor, dual and quad industrial shredders at the simplest stage, and evolves from there to 2-stage to 3-stage and 4-stage tire recycling systems, which would additionally integrate industrial grinders and granulators, powderizers, and refiner mills. The 2-stage system reduces whole tires to steel-free mulch material or a low steel fuel quality material.

“This system solution would typically be comprised of our Saturn Shredder series – dual or quad shaft – with standard or hybrid drive systems, plus our grinder – Saturn Grizzly Series- M80 or Super80 models. The Super80 model processes more than 10 tons of tires per hour. The 3-stage system includes our 2-stage system plus a granulator or a refiner mill. If a customer needs to produce large granulate which must then be reduced to

See SHREDDERS, Page B5

Manufacturer List

American Pulverizer Company

Chris Griesedieck

314-781-6100

www.ampulverizer.com

BCA Industries

John Neuens

414-353-1002

www.bca-industries.com

CM Tire Recycling Equipment

Kaytee Moran

941-755-2621

www.cmtirerecyclingequipment.com

ECO Green Equipment, USA

Brad Swenson

801-505 6841

www.ecogreenequipment.com

Eldan Recycling

Ken Moulin

716-731-4900

www.eldan-recycling.com

Franklin Miller, Inc.

Dave Schuppe

800-932-0599

www.franklinmiller.com

Granutech-Saturn Systems

Mike Hinsey

877-582-7800

www.granutech.com

Komar Industries, Inc.

Mandy Howenstine

614-836-2366

www.komarindustries.com

Metso Corporation

Bob Pfeffer

208-899-5226

www.metso.com

SSI Shredding Systems, Inc.

Dave Fleming

503-682-3633

www.ssiworld.com

Untha America, Inc.

Bernhard Martinz

888-868-4208

www.untha-america.com

Vecoplan LLC

Kim James

877-738-3241

www.vecoplanllc.com

Williams Patent Crusher Inc.

Becky Schmidt

314-621-3348

www.williamscrusher.com

Zerma Machinery

& Recycling Technology

Peter Litgen

847-848-7230

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Shredders

■Continued from Page B4



Franklin Miller, Inc.

1-6 mm material output, our Saturn G-3 Granulator would be added. For .5 to 3mm material output, we would add our Saturn G-4 Refiner Mill. A 4-stage system would reduce all material to 1 to 3mm, with the addition of a Saturn powderizer or all less than 1mm with the Saturn G-4 refiner mill," Hinsey noted.

Dave Fleming is marketing director at SSI Shredding Systems and he explained that the company's products, used all over the world, include one, two, three and four shaft processing machinery, capable of reducing tires of any size down to 12 mm granules. "Our in-house product development team ensures that we offer customers the highest levels of reliability, ease of maintenance and lowest operational costs possible. SSI has installations processing mixed tires at throughput rates starting at 2 tons per hour and topping out just over 30 tons per hour. Most customers are producing 2" chips or 4 to 6" materials that are used for a wide range of applications such as tires-to-energy technologies, civil engineering and crumb rubber production system feedstock. Each prospective customer has different goals. Sometimes capital cost or the physical size of a system are more important factors than operating costs or throughput, so we have systems to meet those needs. Sometimes throughput and operating costs are the only things that matter, and our expertise is well-suited for helping in those environments."

Fleming added that most of the growth in the industry is outside of the U.S. right now, and SSI receives a high number of inquiries from companies that seek solutions for processing large sized tires. "We have developed a new machine to downsize these large tires to 100 – 150 mm (4 – 6") sizes while also reducing the thickness of the output materials to a point where conventional tire processing machinery can accept it and reduce it further. Due to the quality of rubber found in these large tires, most customers are looking to make 'wire free' materials that are 12 mm to 25 mm from OTRs. Our single-rotor machinery is an ideal secondary processor for this application," Fleming said.

A man knocked on my door and asked for a small donation towards the local swimming pool. I gave him a glass of water.

New Mexico approves grant for shredders

The South Central Solid Waste Authority (SCSWA) applied for and received a Recycling and Illegal Dumping (RAID) Grant from the New Mexico Environment Department (NMED) to purchase a portable tire shredder for use at illegal dumping cleanups throughout Dona Ana County.

New Mexico approved grants for two BCA portable tire shredders in 2014 and two more in 2015 to assist county and city agencies in their recycling efforts.

Patrick Peck, SCSWA director, explained, "Scrap tires illegally dumped in the desert are a big problem environmentally – they become a home to disease harboring vectors that pose a threat to human health, such as mosquitoes breeding in rainwater that pools in the tires. With the tire shredder we can turn a huge negative into a beneficial use, and the tire shreds can be used for multiple purposes. Up until now, the only disposal option regionally for scrap tires was to landfill them."

John Neuens of BCA Industries, noted, "Agencies are assured that tires are visibly and legally shredded into a recyclable material, and there is no risk of the tires turning up in a desert arroyo or nearby lake. New Mexico lacks density for private industry tire recycling, so a portable tire shredder for cities and counties makes sense in many of these areas. Every



year more agencies realize this type of shredder can be helpful in their scrap tire dilemma. It can be moved easily with a one ton pickup to cleanup sites and shreds passenger car and light duty truck tires up to 20" in size," Neuens said.

Global unvulcanized rubber market report offered

IndexBox Marketing has just published a new report "World: Unvulcanized Rubber – Market Report. Analysis and Forecast to 2020."

Germany held off a hard charging Thailand in the global unvulcanized rubber trade. In 2014, Germany exported 512.5 kt of unvulcanized rubber totaling \$2,263M, 0.3 percent under the previous year. Its primary trading partner was France, where it supplied 12.9 percent of

its total unvulcanized rubber exports in value terms, accounting for 46.8 percent of total French imports.

Germany's top 5 trading partners in 2014 were France, Poland, the United Kingdom, Italy and Spain, with a combined share 42.7 percent of German exports. The share of France increased (+2 percentage points), while the share of Spain illustrated negative dynamics (-1 percentage points).

Thailand and the U.S. were among the other main global suppliers of unvulcanized rubber in 2014. Thailand was the fastest growing exporter from 2007 to 2014 (+19 percent per year), followed by China (+14 percent per year). With this, Thailand was able to significantly strengthen its position in global exports.

For a direct link to the report, view this article on www.AmericanRecycler.com.

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NEW PRODUCT SHOWCASE



BROKK UNVEILS NEW DARDA TANK CUTTER ATTACHMENT

Brokk Inc. unveiled the TC120 tank cutter attachment manufactured by Darda.

The TC120 tank cutter can be used with the Brokk 160, 260 and 400 models to deliver extraordinary precision. The TC120 brings flexibility to the jobsite with its hydraulic rotation capabilities and 5" wide jaws. It exerts 75 tons of cutting force at 7,250 psi to easily cut through .5" thick steel plate.

This attachment can be used in salvage yards and balers, and is commonly employed for cutting steel tanks, pipes and vessels.

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www.dri-air.com



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The DuraTech 3010 industrial tub grinder is built for extreme wear and tear. It can handle stumps, logs, branches, pallets and green waste, turning them into mulch and compost in no time. Powered by a CAT C15 475 hp or 540 hp Tier III diesel engine and outfitted with a 30" wide oscillating stacking conveyor, this machine can take on the toughest of jobs.

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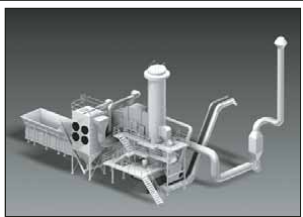


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The series is designed as an integral compactor, power unit and container. When full, the entire unit is loaded on a roll-off hoist truck for transport to a disposal site. It features a single cylinder compactor design in 10 frame sizes that provide capacity capabilities of 7 to 23 cubic yards.

Sizes of six, seven and eight foot containers are also available. All models offer a 28" x 46.5" clear top opening and a maximum packing force of 26,400 lbs.

SP Industries Inc.
2982 Jefferson Road
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www.sp-industries.com



SWISSRTEC LAUNCHES KUBOTA VERTICAL SHREDDER FOR ASR

SwissRtec's Kubota vertical shredder is now available for ASR processing in the U.S.

The Kubota vertical shredder can process domestic appliances, metal scrap and other bulky items. It grinds up materials down to one inch or less in size in a single pass. This vertical shredder can be used as a stand-alone unit or in combination with other processing technology.

The Kubota Vertical Shredder comes in various models, sizes and power options to fit the needs of recycling customers, and also works in combination with the swissRtec Delamination Mill.

swissRtec America, Inc.
14 Whipple Way
Kensington, NH
603-435-3440
www.swissrtec.com

Demand for synthetic rubber in tire industry to drive global benzene market into 2020

According to recently published TechSci Research report, "Global Benzene Market Forecast & Opportunities, 2020", global benzene market is expected to surpass 46 million metric tons by 2020. Benzene finds application across various downstream sectors, with major end-use application being production of derivatives used for manufacturing synthetic rubber. Synthetic rubber is rapidly being adopted as a substitute for natural rubber, particularly in automotive industry, thereby escalating benzene demand, globally. Increasing demand for benzene for the production of prominent derivatives including ethylbenzene and cumene, among others, is the key factor driving growth in global benzene market.

The report reveals that majority of benzene is processed for the production of ethylbenzene, a precursor to styrene, which is used for producing polystyrene plastics, engineering plastics, and synthetic rubber. These products find application in manufacturing of tires, paper coatings, footwear, etc. Production of ethylbenzene is anticipated

to account for majority of benzene consumption over the forecast period as well. Ethylbenzene, is followed by cumene, cyclohexane and nitrobenzene, in terms of volume consumption of benzene, globally.

"With growing application in automotive, paper coatings, electronic appliances and plastics industry, the demand for benzene is continuously increasing. However, the use of lighter feedstock for steam cracking is gradually resulting in a tightened demand/supply scenario, owing to which global players are either expanding their existing capacities or adding new facilities for production. Global benzene market is anticipated to exhibit promising growth over the next five years on the back of increasing demand worldwide.", said Karan Chechi, research director, with TechSci Research. "Global Benzene Market Forecast & Opportunities, 2020" has analyzed the future growth potential of benzene market across the globe, and provides statistics and information on market size, share and trends.

Michelin invests \$22 million in plant

Michelin North America is investing \$22 million in its Dothan facility in order to increase the production of its high-performance light truck and SUV passenger tires.

Michelin said the investment will create about 40 new jobs at the plant. Currently, the Dothan facility employs 560 people.

Pete Selleck, chairman and president of Michelin North America, said the investment will include significant equipment upgrades that will result in a 10 percent increase in production.

"I'd like to thank the Industrial Development Board of the City of Dothan, Alabama for their support," he said. "This is an exciting time for our Dothan site. The plant just celebrated its 35th anniversary of operation and this project will help position Dothan to continue to be a strategic part of Michelin's future in the North American market."

Installation of the upgrades has begun at the facility and will be completed by the summer of 2016.

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Goodyear reports record second quarter results

The Goodyear Tire & Rubber Company reported record results for the second quarter of 2015.

"We delivered outstanding segment operating income growth and achieved a segment operating margin of more than 13 percent, despite significant foreign currency and global economic headwinds," said Richard J. Kramer, chairman and chief executive officer.

"North America continued to lead the way with a 54 percent increase in segment operating income and a 16 percent segment operating margin driven by strong demand for our products," he said. "Additionally, three of our four businesses posted segment operating margins in excess of 10 percent."

Goodyear's second quarter 2015 sales were \$4.2 billion, down from \$4.7 billion a year ago, with the decrease

largely attributable to unfavorable foreign currency translation of \$401 million.

Tire unit volumes totaled 40.8 million for the second quarter of 2015, up 1 percent from last year. Original equipment unit volume was up four percent. Replacement tire shipments were down one percent.

The company reported second quarter segment operating income of \$556 million in 2015, up 21 percent from a year ago and a record for any quarter. The increase in segment operating income was driven by favorable price/mix net of raw materials and cost reduction actions. These were partially offset by inflation and unfavorable foreign currency translation.

Goodyear's second quarter 2015 net income was \$192 million (\$.70 per share). Excluding certain significant items, adjusted net income was \$229

million (\$.84 per share). Per share amounts are diluted.

Second quarter 2015 adjusted net income was also impacted by \$79 million (\$.29 per share) of U.S. tax expense following the release of the company's U.S. tax valuation allowance in the fourth quarter of 2014. Due to tax credits and prior tax-loss carryforwards, the company does not expect to pay significant cash income taxes in the U.S. for about five years.

Goodyear's second quarter 2014 net income was \$213 million (\$.76 per share). Excluding certain significant items, adjusted net income was \$225 million (\$.80 per share). Per share amounts are diluted.

Goodyear's sales for the first six months of 2015 were \$8.2 billion, down 10 percent from the 2014 period, reflecting unfavorable foreign currency translation of \$794 million.

Tire unit volumes totaled 81.6 million for the first half of 2015, up 1 percent from 2014. Replacement tire shipments were up 1 percent. Original equipment unit volume was up 3 percent.

The company's first half segment operating income of \$947 million was up 14 percent from last year and a record. Compared to the prior year, year-to-date segment operating income reflects the benefits of favorable price/mix net of raw materials and cost reduction actions, which exceeded the impact of inflation and unfavorable foreign currency translation.

Goodyear's year-to-date net income available to common shareholders of \$416 million (\$1.52 per share) is up from \$155 million (\$.58 per share) in 2014's first half. All per share amounts are diluted.

Artificial turf

■Continued from Page B1

has asked about alternative products, but not us as much as they ask the installers for safety studies or information about our material content. We refer people to the recycled rubber industry's website www.recycledrubbersafetycouncil.org. It has a fact kit, which was compiled toward the end of last year and is updated as new studies or information comes out. All of the technical white papers are there in full."

Bigelow said that 10 to 20 mesh size is most commonly used for athletic fields and that roughly 25 to 30 percent of Liberty's crumb rubber production goes to sports fields and tracks. An average football field, for instance, requires approximately 250,000 pounds. He says that installers typically recommend that crumb rubber infill has a lifespan of 8 to 10 years and mentioned there are a few companies that are trying to recycle the old infill material. They pull up the old material and clean it by sifting out the build-up of foreign debris. The reclaimed crumb rubber is then used to augment new material being installed, but this is happening only on a very small percentage of fields.

Domenic Carapella, president and founder of GeoTurf USA, a producer of playing surfaces using lead-free turf and organic infill said, "We've been really busy answering calls this year and filling more orders than we ever had in the past," reported Carapella. "Quite a few people who are informed about crumb rubber have changed to our product. The Rockwood, Missouri high school system was going to go with crumb rubber earlier in the year and then they became aware of all the issues. The parents spoke up and the superintendent made a decision to use organic infill. As we speak, their fields are being installed. Since 2007, the product has been installed on over 400 fields worldwide and about 20 in the U.S. I would say there's been a huge upturn in the use of organic infill."

Carapella estimated the cost of organic infill is about 10 percent more per field than crumb rubber. The only barrier to people buying it, he believes, is the misinformation. Some of his competitors have misrepresented the cost of organic by talking about \$400,000 per field as opposed to only about \$50,000 more per field, but when people call him and get the correct information they are pleasantly surprised.

"Our material is 100 percent recyclable," said Carapella. "It's not a recycled material but it uses post-industrial waste composed of coconut husk fibers and cork. There's no plastic in it whatsoever. It's all organic."

GeoTurf USA first installs a ballast layer of sand to provide the weight that keeps the turf stable. Then the organic infill layer is installed. Minimum life for the product is eight years, but it can last as long as the life of the synthetic turf if maintenance protocols are followed. As long as it stays within maintenance guidelines, it's similar to other types of infills. It can be topped off every year with more material if it gets compressed and can be easily groomed.

"Technically, it's supposed to last 15 years because that's how long it typically lasts in nature before it biodegrades," Carapella mentioned. "100

percent of it can be removed and recycled on site and used as a free top dress for natural grass fields, or tilled into the ground to help oxygenate the soil. In terms of safety and impacts for players, it's far superior because the cork gives it resiliency that lasts. It does not bind-up like crumb rubber with heat or mechanical friction or tend to get hard on the surface over time."

GeoTurf USA uses G-Max testing, a method of evaluating the shock absorbing properties of new and aging synthetic turf systems. Their G-Max tests have proven GeoTurf is on par with natural grass.

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