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Tire recycling market stays strong



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Aluminum recycling rate declines

by MAURA KELLER

mkeller@americanrecycler.com

According to the Aluminum Association, more than 75 percent of the aluminum ever made is still in use today because it can be recycled over and over again. Virtually all of the aluminum used in cars, buildings, airplanes and similar industrial products is recycled. Additionally, consumer products like beverage containers are recycled at far higher rates than competing packaging such as glass, plastic bottles or multi-layer composite containers, regardless, around \$800 million worth of aluminum is buried in landfills each year in the U.S. and is primarily aluminum cans.

While aluminum cans are the most recycled beverage package in the U.S. with a 10 to 20 point recycling rate advantage against glass and plastic, per the Aluminum Association, “the consumer recycling rate for aluminum cans, which measures the amount of domestic aluminum can scrap recycled as a percentage of cans available for recycling, declined significantly in 2016 to 49.4 percent.”

Here’s why: Like most recycled commodities, aluminum prices have declined in recent years. This drop in scrap price may have prompted sellers to hold onto the metal longer, waiting for prices to recover. When coupled with an even sharper decline in the all-in price for aluminum, scrap consumers may have also had more incentive to purchase and substitute other metal sources (primary or other secondary aluminum) into their stream.

According to Michael Jenny, managing director at Livingstone in Chicago and a member of Livingstone’s Global industrial team with a particular focus on metals and manufacturing sectors, the aluminum scrap market has been stagnant and prices are lingering at multi-year lows.

“In the primary scrap grades, price spreads are widening, meanwhile, secondary grades are abundant and demand is slow,” Jenny said. “Absent a major change in policies or production-driven demand, I suspect we’re near the bottom in terms of pricing.”

Ultimately this is a classic case of over supply for adequate demand. As Jenny explained, years ago there was concern about a shortage of aluminum, since then the industry met demand and we now have a glut of supply.

“The automotive industry is responsible for much of this shift, as the industry strives to meet the CAFE standards set forth in 2007 – under the current laws, passenger cars are required to reach 54.5 miles per gallon by 2026, so they’re building a voracious appetite for



Robert Marshall oversees aluminum can recovery at Lake Erie Recycling in Toledo, Ohio.

aluminum, that is not composed of majority recycled scrap,” Jenny said.

Aluminum sheet manufacturers also have shifted capacity towards higher-value automotive related products. As a result, capacity to fulfill other orders diminished, causing an influx in imports of finished sheets that eventually became scrap.

“This in turn resulted in a major glut in supply of scrap metal, which has significantly lowered prices,” Jenny said. “Overall, exports of UBCs are down 75 percent; the all-in price of aluminum is down \$.17 to date. Moreover, historically wide spread means the all-in price of cans is, to use a technical term, super bad.”

Jenny said you can point at a few additional factors, including fewer people consuming soda, severe weather in different parts of the country impacting recycling, the automotive industry using, on average, less than 50 percent of recycled scrap aluminum, and the general lack of deposit legislation across many states.

“When scrap isn’t worth much, it’s not worth it for people to spend their days dragging it in,” Jenny said.

Legislative Efforts

To offset aluminum recycling (or the lack thereof) legislators have repeatedly introduced bottle bills (also known as container deposit laws), which some say, are proven, sustainable methods of capturing beverage bottles and cans for recycling. The refund value of the container (usually 5 or 10 cents) provides a monetary incentive to return the container for recycling. Only about 10 states have state beverage container deposit laws in place.

“Deposit bills could make a positive impact on the level of cans recycled,” Jenny said. “Simply put, when pricing drops, so does incentive for people to go out and pick up cans. States with deposit bills experience more recycling than states without deposit bills.”

In California, for example, the state’s Beverage Container Recycling Program is part of the California Beverage Container Recycling and Litter Reduction Act. Beverage containers covered under the act are subject to the California redemption value (CRV), which is \$.05 for containers less than 24 ounces, \$.10 for containers 24 ounces or

See ALUMINUM, Page A4

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Manager, Pacific Steel & Recycling
Rock Springs, WY

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State of New York expands artificial reef with recycled materials for the second year

Governor Andrew M. Cuomo recently launched the second year of the largest artificial reef expansion in New York State history.

The state deployed materials that will create new marine habitat at Fire Island Reef as part of an ongoing initiative to develop a stronger, more diverse marine ecosystem and provide shelter for fish and other marine life off New York's shore. The materials for the reef expansion – as well as six more announced for this year at Atlantic Beach, McAllister Grounds, Yellowbar, Kismet, Matinecock and Twelve Mile – will be strategically placed to also enhance Long Island's recreational and sport fishing and diving industries.

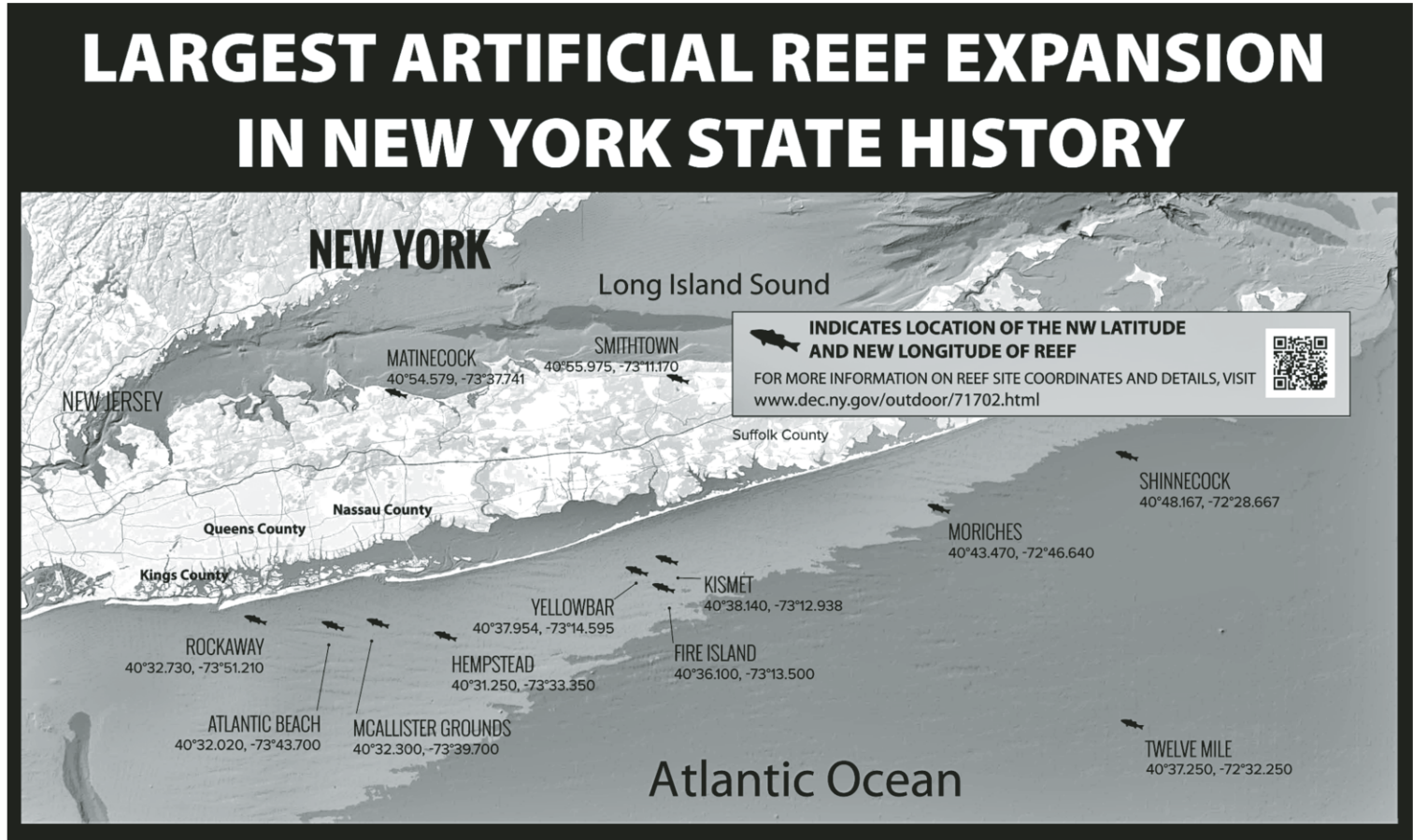
With unprecedented, multi-agency coordination that began last year, recycled materials from the State Department of Transportation (DOT), New York Power Authority (NYPA)/Canal Corporation, and the Thruway Authority, among other partners, are being put to new use and helping to develop New York's artificial reef sites. The 744 acre Fire Island reef, located two miles from shore with a depth of 62 to 73', is the most recent recipient of recycled materials cleaned of contaminants that include:

From the U.S. Army Corps of Engineers:

- The retired U.S. Army Corps of Engineers steel vessel M/V HUDSON.

From DOT's Staten Island Expressway, Kew Gardens bridge in Queens and Kosciuszko bridge sections, nearly 1,000 tons of material, including:

- Steel bridge girders 20 to 60' long
- Steel pipe ranging in size from 20 to 40' long
- Steel sign structure 50' long



GRAPHIC COURTESY OF STATE OF NEW YORK

- 10 steel lifting tower pieces 10 to 15' long

From NYPA/Canal Corporation:

- A 30' tainter gate
- Lift bridge sections up to 34'
- 33' miter gates
- (6) 20' steel pontoons

Construction of New York's first artificial reef dates back to 1949, and this latest initiative marks the state's first coordinated effort to stimulate the full environmental and economic benefits of artificial reefs. The artificial reef expansion will increase the biodiversity of habi-

tats for a variety of fish and crustacea, promote biodiversity and environmental sustainability, and boost New York's recreational fishing, sport fishing, and diving industries. Once materials and vessels settle to the sea floor, larger fish like blackfish, black seabass, cod, and summer flounder, move in to build habitats within the new structures, and encrusting organ-

isms such as barnacles, sponges, anemones, corals, and mussels cling to and cover the material. Over time, these recycled structures will create a habitat similar to a natural reef.

DEC Artificial Reef Program manages the state's 12 artificial reefs (2 reefs in Long Island Sound, 2 in the Great South Bay, and 8 in the Atlantic Ocean).

Zuru joins forces with TerraCycle to launch balloon recycling program

Leading toy and consumer products manufacturer Zuru™ Inc, announced the Bunch O Balloons Recycling Program powered by a long-term strategic alliance with the innovative recycling giant TerraCycle.

The partnership encourages consumers to think 'green' and recycle 100 percent of their used balloon plastics and packaging. Beginning September 1st 2019 all Zuru Bunch O Balloons™ products in the U.S., Canada, United Kingdom, Australia and New Zealand will be fully recyclable.

Consumers will be able to ship or drop off used Bunch O Balloons packaging, balloon pieces and fast-fill stems – at TerraCycle recycling stations, where they will then be processed and recycled into new materials.

“Taking steps to make our products more sustainable is a top initiative especially when it comes to left-over

balloon latex and packaging from our Bunch O Balloon brands,” said Anna Mowbray, founder, Zuru. “Through our partnership with TerraCycle, we’re providing consumers a simple way to recycle material, reduce the amount of landfill plastic around the world and produce recycled materials.”

TerraCycle and Zuru will make it easy for consumers to collect all their Zuru Bunch O Balloons materials after use, pack into any available box, print off their shipping label after signing up and then simply ship out or drop off to be recycled.

The multi-market TerraCycle program is one part of Zuru's 10 year sustainability program to rethink how they design new and existing products, reduce usage of plastics in items while still delivering a top quality experience and how they encourage recycling at all touchpoints.

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Aluminum

■Continued from Page 1

larger. As a result of the CRV cash incentive, more than 300 billion aluminum, glass and plastic beverage containers have been recycled since the program began in 1987.

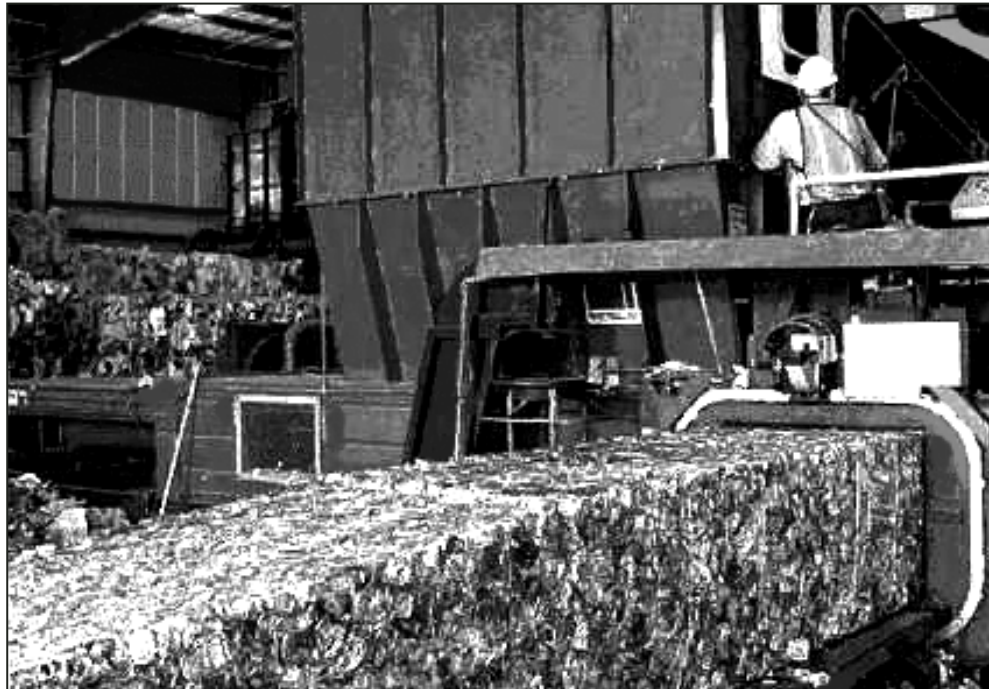
While Hawaii was the state to most recently pass a bottle deposit recycling bill in 2005, Arkansas recently filed a similar bill in March 2019. Of the two billion beverage containers consumed by Arkansans each year, roughly 70 percent of those bottles and cans ended up at landfills instead of recycling plants. Some of the bottles and cans simply end up on the side of the road.

“Arkansas spends \$5 million a year picking up litter – that’s from the Department of Transportation,” said Arkansas State Representative Vivian Flowers (D-Pine Bluff), who filed the bill.

Landfill bans also are embraced by the Aluminum Association, which stated that, “Each year in the U.S. around \$800 million worth of aluminum cans end up in landfills. This wasted value represents a loss to the environment and the overall economy. Cans aren’t trash.”

These UBCs are a valuable raw material stream for the aluminum industry, and the Aluminum Association supports legislation that keeps post-consumer used beverage cans out of landfills. Currently North Carolina and Wisconsin have landfill bans of aluminum cans in the hopes of building awareness among recycling companies and consumers.

So what does the future look like for aluminum recycling – specifically as it relates to aluminum cans? Aluminum use is better for the environment than glass or plastic. According to the Aluminum Association, a 2016 study by ICF International found that on a per liter beverage basis, emissions associated with transporting and cooling aluminum cans are 7 to 21 percent lower than plastic bottles and 35 to 49 percent lower than glass bottles,



When aluminum isn't worth as much, people don't want to spend their time collecting it and turning it in to be recycled, further reducing the recycling rate.

depending on the size of the comparative bottles as well as the types of refrigerators in which beverage is cooled prior to consumption. On a per container basis, the associated emissions of beverage packaged in a 12-oz aluminum can is 45 percent lower than in a 12-oz glass bottle and 49 percent lower than in a 20-oz plastic bottle when delivered and chilled in small markets and convenience stores.

Likewise, the recyclability of aluminum cans is unique in that they are most often recycled directly back into themselves. As the Aluminum Association explained, this means that aluminum cans have more than three times the recycled content than EPA estimates for glass or plastic, with 70 percent recycled content on average.

These benefits aside, monetary benefits (and any legal requirements) of recycling aluminum are what dictate the recycling efforts of consumers and recycling companies.

“We’re watching two trends that hold the potential to be important drivers for the aluminum recycling industry going forward,” Jenny said. “We’re closely watching demand response from increased domestic production which should soak up additional scrap

supply which should, in turn stabilize pricing. Moreover, the anticipated shift by global brands from plastic bottles to aluminum will increase demand for aluminum, recycled and otherwise. Frankly, all things being equal, setting aside that London Metal Exchange (LME) pricing is directionally driven by global GDP, these two drivers are likely to have a mitigating effect on the current oversupply in the North American market.”

NWRA urges California to incentivize recycling infrastructure

In a letter to AB 1080 sponsor, California Assemblywoman Lorena Gonzalez, the National Waste and Recycling Association (NWRA) urged California lawmakers to incorporate legislation incentives to boost domestic recycling markets and capacity. AB1080 and its companion bill SB54, legislation known as California Circular Economy and Plastic Pollution Reduction Act, would require a 75 percent reduction in waste from single use plastic products by 2030 and requires all single-use plastic products in California to be recyclable or compostable by 2030.

“The changing nature of recycling and waste materials has made it challenging to collect and segregate items and has led to increased confusion as to

what is recyclable. The ability to identify recyclability or compostability, and the ability to sort these materials must be considered. We have concerns that these bills may drive product manufacturers to label their materials as recyclable while there is no end market. We suggest that the legislation include incentives to encourage investment in domestic market development,” said NWRA president and chief executive officer Darrell Smith.

Investments in a domestic market would have the potential to create greater stability in California’s existing recycling infrastructure and spur the development of domestic processing facilities, in order to solidify a closed loop for single-use plastic products.

Events Calendar

September 23rd-25th

Missouri Recycling Association Conference. Sheraton Westport Chalet Hotel, St. Louis, Missouri.
573-491-4255 | www.moraconference.org

October 7th-12th

ARA (Automotive Recyclers Association) Annual Convention and Expo. Charlotte Convention Center, Charlotte, North Carolina.
615-223-6656 | www.a-r-a.org

October 9th-10th

Waste & Recycling Expo, CANADA. Enercare Centre, Downtown Toronto, Ontario, Canada.
770-984-8016 | waste-recycling-expo-canada.us.messefrankfurt.com

October 20th-22nd

West Virginia Educational Conference on -Litter Control & Solid Waste Management. Canaan Valley Resort and Conference Center, Davis, West Virginia.
304-926-0448 | www.awwsa.org

October 21st-24th

SWANA WASTECON. Phoenix Convention Center, Phoenix, Arizona.
800-467-9262 | www.swana.org

October 29th-30th

The Northeast Recycling Council (NERC) Fall Conference. The Graduate Providence Hotel, Providence, Rhode Island.
802-254-3636 | www.nerc.org

November 14th-15th

E Waste World Conference & Expo. Kap Europa, Frankfurt, Germany.
+44 1483 330 018 | www.ewaste-expo.com

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EPA recognizes Bucks County, Pennsylvania site for excellence in reuse

The U.S. Environmental Protection Agency (EPA) presented Heritage Conservancy in Southern Bucks County, Pennsylvania with its Excellence in Site Reuse Award for the Croydon TCE Superfund Site. The award is part of EPA's commemoration of the 20th anniversary of the Superfund Redevelopment Initiative (SRI), launched in 1999 with the goal of returning formerly contaminated lands to long-term sustainable and productive reuse for communities across the country.

Before the agency's Redevelopment Initiative, sites were cleaned up but not necessarily put back into productive use. By considering reuse early in the site cleanup process, the Redevelopment Initiative helps ensure that desired future uses are compatible with site cleanup remedies and removes barriers that could keep areas vacant or underused.

The Croydon TCE Site, located in a 3.5 square mile area within the southernmost portion of Bristol Township, Bucks County, includes residential, commercial, and industrial properties. The site was listed on the National Priorities List (NPL) in June 1986 after elevated levels of volatile organic compounds (VOCs) were detected in groundwater. EPA's cleanup remedy included connecting impacted residents to public water and constructing a groundwater extraction and treatment system to clean up the contamination.

Heritage Conservancy acquired 80 acres of the Croydon Site in 2016 and operates a preserve that is one of the last remaining coastal plain forests in Pennsylvania. The preserve provides publicly accessible green space in a developed area of Bucks County and is inhabited by many mammals, birds, reptiles, and amphibians. Heritage Conservancy also works closely with the local Little League and the nearby Keystone Elementary School to provide field trips and educational opportunities.

Overall, approximately 1,000 Superfund sites are in reuse today—more than half the number of sites on Superfund's National Priorities List. EPA has data on over 8,600 businesses at 529 of these sites. In fiscal year 2018 alone, these businesses generated \$52.4 billion in sales, which is more than 4 times the amount EPA has spent at these sites. These businesses employed more than 195,000 people who earned a combined income of \$13 billion. Over the last 7 years, these businesses generated at least \$263 billion in sales.

Over the last few years, as part of the Superfund Task Force work, EPA developed a nationwide list of Superfund National Priorities List sites with the greatest expected redevelopment potential. The list helps promote a renewed focus on accelerating work and progress at all Superfund sites.

Many consumers aren't backing down despite uncertainty of recycling

While headlines over the past few years might lead you to believe otherwise, the reality is that Americans say they are still recycling at the same rate, despite having little confidence that their recyclables actually get recycled. A national poll conducted by Mason-Dixon on behalf of the Carton Council showed that 85 percent of respondents report they recycle.

While people say they are still recycling, they aren't confident in what happens to those materials once they leave the curb. Nearly two-thirds (65 percent) of respondents are either unsure (21 percent) of what happens to their materials, or flat out don't believe (44 percent) that the materials are being recycled.

The research also reveals that recycling support is highest among younger generations. The largest supporters are ages 18 to 34, with 92 percent reporting they recycle. As age increases, support decreases slightly with 89 percent of 35 to 49 year olds, 87 percent of 50 to 64 year olds and 68 percent of those 65 and older reporting they recycle.

"This is great news as it shows that the vast majority of Millennials and Generation Z are supportive of recycling despite recent negative publicity," said Carla Fantoni, vice president of communications, Carton Council. "While recycling is currently facing challenges that began with turmoil stemming from the China restrictions and bans, it is a

cyclical industry and we are seeing investments in both materials recovery facilities and end markets, working to ensure recycling's future."

Just 35 percent of respondents believe materials actually get recycled

The Carton Council has been working hard over the past 10 years to not only increase carton recycling access, but also to work with the recycling industry to help facilities and communities get the most out of carton recycling. This includes support and guidance on the best ways to sort food and beverage cartons, brokers to identify end markets, and assistance in educating residents that cartons can be recycled and turned into new products.

"We commissioned this research to better understand the impact, if any, on consumers' attitudes and behavior surrounding recycling," said Fantoni. "It is reassuring to see a commitment to recycling, even when consumers are unsure of what happens to the materials. This reinforces that we, as an industry, need to work together to ensure recycling is actually occurring and show consumers what happens to the recyclables after they leave their curbs, removing their skepticism."



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RePlanet closes 300 recycling and redemption centers in California

RePlanet, one of California's largest recycling redemption centers based in the city of Ontario, closed on August 5th, subsequently terminating all 750 employees from its 284 centers.

Company president, David Lawrence said the decision was made because of increased business costs and falling prices of recycled aluminum and PET plastics. In the press release, rePlanet thanked the Governor and State Legislature for a budget intervention, as well as temporary assistance that aided small recyclers.

They cited multiple reductions in prior State payments, the depressed pricing of recycled aluminum and PET

plastic, and the rise in operating costs resulting from minimum wage increases and required health and workers compensation insurance, as making operation of these recycling centers and supporting operations financially unsustainable.

The National Waste & Recycling Association issued a statement in response to an article published by Waste360 about the closing of the centers:

"In response to the {Waste360} article on the closing of rePlanet, the primary takeaway is that recycling is not free. Even with the support of funds from deposits, it was challenging to run a recycling program, and ulti-

mately, financially unsustainable. The article points out that consumers were redeeming only about half of the deposits that they pay and are instead utilizing their curbside recycling bins. From a sustainability perspective, this is a laudable choice as recycling is the ultimate objective of container deposit schemes.

As pointed out, recycling commodity prices have dropped and the market is "brutal." Like rePlanet, many haulers relied on recycling commodities revenues to support the hauling contracts and are struggling under current conditions. Suggesting that these contracts are lucrative mischaracterizes the current reality.

Waste haulers would like to be able to capture recyclable materials because it ensures that the hauling costs can remain viable to municipalities and because it provides efficiencies not enjoyed by the container deposit redemption centers."

In their press release, rePlanet states, "We regret that these site closures will negatively impact our employees, grocer partners, customers and the recycling community at large. We thank our 750 employees for their hard work and dedication in providing convenient recycling opportunities to our valued customers across the State of California."

NY DEC accepts grant applications

Under revised regulations, approximately \$4.5 million will be available in 2019 for new grants to assist local governments to pay for recycling education, coordination, promotion and planning (RECPP). RECPP funding will reimburse up to 50 percent of eligible "soft costs" of recycling and waste prevention.

Eligible projects include:

- Costs of salary for a municipal recycling coordinator
- Publications
- Education and outreach tools
- Recycling advertising
- Recycling websites
- Promotional items

DEC will accept applications through October 2019.

Ecomaine CEO urges long term view for recycling

The leader of Maine's leading waste manager described the decision by an increasing number of communities in Maine and nationwide to pause or entirely abandon dedicated municipal recycling programs 'a mistake.' In an address to the Maine Town, City and County Management Association, ecomaine's chief executive officer, Kevin Roche spelled out concerns for municipalities that would consider ceasing recycling operations.

"It worries me when I see headlines about communities ditching recycling," said Roche. "Because I know how long we all worked to get them going. We've come a long way after 30 years – and we always need to look for improvements – but recycling is still far better than the alternative, which is landfilling this material."

In a presentation to more than 100 town and city managers and other municipal staff, Roche outlined the recent challenges presented by the markets for recyclable materials, but urged patience and leadership, as the markets make their comeback.

"Recycling is a long term strategy," he said. "When it comes to sustainable solid waste management, we have to do the math over many years, and even decades, not month to month or year to year. From 2005 to 2019, if ecomaine's member communities had put the 500,000 tons of recycling into the trash, those communities would have paid \$36 million. In the very short term, recycling may be more expensive today, but we know that over time, landfilling is far more expensive."

Since 2018, markets for recyclable materials have been challenged by China's national policy to accept only the cleanest material, contamination rates of recycling loads globally, as well as the evolution of packaging materials in waste streams. However, Roche remained steadfast in the recycling industry's ability to find long-term solutions and asked for municipal leaders' support.

"We need your help to promote recycling, and to maintain these important programs. We need to stay committed to the solid waste hierarchy – and we can do that with your leadership."

Abilene, Texas no longer accepting plastic and glass

Due to a prolonged and future-anticipated change in the recycling market, Abilene's collector and distributor of recyclable materials, Texas Metals and Recycling Company is no longer accepting plastic and glass materials. Because of this change in business, the City of Abilene has no point of distribution for plastic and glass recyclables, and will no longer be able to accept those materials at its recycling collection centers.

The city will continue to monitor the glass recycling market, and work to reinstate glass recycling if there is a proven cost-effective program for that repurposed material.

Additional receptacles for the collection of cardboard recyclables will be made available at city and Neighborhood Recycling Centers as the market continues to show a demand for the material.

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Hoboken, NJ to implement dual stream recycling

Starting September 9, the City of Hoboken will change to a dual-stream system of recycling which separates aluminum, glass and plastics from paper. The switch will help increase recycling in Hoboken and reduce the city's share of landfill waste, and could save taxpayers \$200,000 in recycling costs per year. Recycling pick up will be on Monday and Thursday nights, with comingled recycling (aluminum, glass, plastics numbered 1, 2 and 5) collected on Monday nights. Paper recycling, which includes cardboard, will be collected on Thursday nights.

The switch to dual-stream recycling will reduce Hoboken's contribution to additional landfill waste and is the latest initiative in Hoboken's Climate Action Plan launched by Mayor Ravi S. Bhalla to achieve carbon neutrality by 2050 and exceed the goals of the Paris Agreement. Currently, Hoboken's single-stream recycling process results in only one-third of all waste in Hoboken being recycled.

As a reminder, comingled recycling (aluminum, glass, plastics numbered 1, 2 and 5) must be clean, dry and should be placed in blue covered bins. Paper recycling (paper, cardboard) must be clean, dry, flattened and bundled in cardboard boxes or tied with string, and should not be placed outside during rain. Plastic bags and styrofoam are not to be placed in recycling bins. In addition, glass bottles will be collected on Thursday nights in the limited business area (Washington St, Newark St, 1st St, 14th St, and Hudson Pl).

The Department of Environmental Services will be giving away free blue covered recycling bins (one per every five units) at the Hoboken Recycling Center. Magnets with the waste collection schedule are available at both locations in September.

EGLE funds \$2.8M effort to promote recycling in Northwest Michigan

The Michigan Department of Environment, Great Lakes, and Energy announced two major grants that, combined with local funds, will deliver more than \$2.8 million to expand and improve recycling infrastructure in Grand Traverse and Emmet counties.

The grant announcements are part of the Traverse City launch of Know It Before You Throw It, EGLE's first statewide education campaign to better inform Michiganders on what can – and cannot – be recycled and how to recycle correctly.

EGLE's goal is to promote awareness of cleaner recycling practices to reduce the amount of contaminated materials improperly going into recycling bins.

The state also wants to double Michigan's recycling rate to 30 percent by 2025 and ultimately reach 45 percent annually. Michigan's current 15 percent recycling rate is the lowest in the Great Lakes region and ranks among the nations' lowest.

"We want to inform and inspire more people than ever before in Michigan about how to recycle better," said EGLE assistant director of the materials management division Elizabeth Browne.

"This campaign is a first of its kind for Michigan that offers multiple benefits," Browne said. "Increasing recycling and improving the quality of materials we're recycling saves energy, reduces water use, decreases greenhouse gases, conserves resources and translates into local jobs."

Achieving EGLE's 30 percent recycling goal would produce as many as 12,986 jobs, which translates into an economic impact of up to \$300 million annually, according to the Expanding Recycling in Michigan Report prepared for the Michigan Recycling Partnership.

To move further toward that benchmark, EGLE unveiled nearly

\$1.3 million in Northwest Michigan region grants:

- \$800,000 that will support the Emmet County Department of Public Works' \$1.5 million plan to upgrade recyclable material processing technology, including the installation of robotic separating equipment, and increase access to a regional recycling processing facility for surrounding municipalities.

- \$474,000 that will support Kalkaska-based American Waste's \$1.3 million plan to produce higher-quality mixed paper recycling products available to Michigan manufacturers that need cleaner materials, including the purchase of fiber optical scanning and sorting equipment that will create more valuable recycled commodities for businesses statewide.

The Know It Before You Throw It campaign launched as communities across Michigan and the U.S. are struggling with international market shifts, resulting in higher costs for some local governments that fail to meet new industrywide cleanliness standards for recyclable materials.

Recycling in Michigan is receiving a major boost as state legislators in an overwhelmingly bipartisan move have increased EGLE's funding for recycling from \$2 million last year to \$15 million in 2019. The extra funds will support development of recycling markets, increase access to recycling

opportunities and reinforce planning efforts to grow recycling at the local level.

EGLE kicked off the campaign in Traverse City by introducing the Michigan Recycling Raccoon Squad, a six member team of recycling champions who will serve as EGLE's education ambassadors. EGLE commissioned research shows that education is key for residents to learn how to properly recycle. For example: 50 percent of Michigan residents mistakenly believe they're allowed to recycle plastic bags in their curbside recycling, which is prohibited by most municipalities but is permissible in Emmet County. That's why EGLE advises people with questions to contact their local recycling agency for information.

- 76 percent of Michiganders are unaware that food or liquid inside a jar or container that's tossed in the recycling bin poses a risk of contaminating everything in the bin. EGLE recommends rinsing and emptying items before placing in the bin.

- Michigan recycles more than 90 percent of bottles and cans that carry a deposit, but such returnable containers represent only 2 percent of all the waste Michiganders recycle every year. Almost 53 percent of the state's municipal solid waste that goes to landfills could go to recycling facilities.

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100,000 electronics collected via NYC curbside program

The New York City Department of Sanitation has announced that 100,000 e-waste items have been collected, and properly recycled, in the Department's curbside e-waste collection program.

City residents cannot dispose of unwanted televisions, computers and other e-waste with their trash and recycling, due to New York State laws. Electronics often contain valuable materials, like gold and copper, as well as harmful materials, including lead, mercury and cadmium. Recycling electronic waste not only keeps these toxins from polluting the air, soil, and water, it also reduces energy and water use associated with manufacturing new materials.

The Department's on-demand collection program provides residents with yet another easy option for properly disposing of unwanted e-waste items. Residents can request curbside pick-up of their covered items at nyc.gov/electronics or with a phone call to 311.

The Department's curbside e-waste collection program began as a pilot on Staten Island in October 2016 and has since expanded to include Brooklyn and parts of Queens.

Items included in the curbside e-waste collection program include:

- Televisions (including cathode ray tubes)

- Computer peripherals, including any permanently attached cable or wiring

- Monitors, laptops

- Electronic keyboards

- Electronic mice and other pointing devices

- Fax machines, document scanners, and printers that are meant for use with a computer and weigh less than 100 lbs.

- TV peripherals, including any permanently attached cable or wiring

- VCRs

- Digital video recorders

- DVD players

- Digital converter boxes

- Cable or satellite receivers

- Electronic or video game consoles

- Small scale servers

- Portable devices, including any permanently attached cable or wiring

- Portable digital music players

Other options for residents include the e-cycleNYC program, which brings units convenient, in-building collection boxes to residents in apartment buildings with 10 or more units. New Yorkers can also donate working electronics through DonateNYC (www.nyc.gov/donate) and can recycle unwanted electronics at household hazardous waste drop-off sites and SAFE Disposal Events in all five boroughs.

California leaders meet to develop recycling strategies

The California Product Stewardship Council (CPSC) honored California based companies for their environmental efforts during the organization's 10th Annual Arrow Awards ceremony at the California Resource Recovery Association (CRRA) conference on waste reduction. Conference speakers included Scott Smithline, director of CalRecycle, Timothy Bouldry, program director for the International Solid Waste Association, and Froilan Grate, executive director of Gaia Philippines. The convening of key material management industry leaders comes at a crucial time as China continues to curtail the types and volumes of post-consumer materials they will receive, which is having a negative effect on the recycling facility operators, and the largest in-state operator of recycling redemption centers closing.

"The Arrow Award winners are leaders in driving a circular economy," said Doug Kobold, executive director of the California Product Stewardship Council, "which means 'waste' from one product is feedstock for the next. We are thrilled to highlight companies with such impactful environmental achievements and work hard to minimize environmental impact, locally and globally."

In addition to the Arrow Awards, CPSC recognized Manuel Medrano, environmental services manager for the City of Chula Vista, for his work to push the material management industry forward and CalRecycle for their partnership with CPSC promoting extended producer responsibility (EPR) programs throughout the state.

Outerknown is the recipient of the 2019 Golden Arrow Award for overall excellence in product stewardship. Outerknown is a clothing company that creates stylish and sustainable designs from recycled, regenerated and organic materials while introducing transparency into the traditional supply chain. Outerknown works with businesses, governments and communities to create lasting changes in environmental and labor practices across the world.

Circular Polymers received the 2019 Green Arrow Award for system and design innovations. Circular Polymers transforms post-consumer carpet waste into new polymer raw materials for many industries, such as packaging and housing. Their newly expanded California facility will process approximately 30 million pounds of carpet per year, incorporating plastic waste back into the supply chain.

Corona Enterprises is the winner of the 2019 Bow & Arrow Award for coalition building for creative partnerships and demonstrating the interdependence amongst stakeholders. Corona is a regenerative design and implementation consultancy working with clients and numerous partners to regenerate ecosystems and preserve our planet's resources.

Kaiser Permanente was presented with the 2019 Infinity Arrow Award for service and take-back. Kaiser Permanente has made impressive efforts to promote safe and appropriate pharmaceutical drug disposal through medication disposal bins and mail-back envelopes.

U.S. equipment numbers see some stability, Canada experiences sharp declines

As the trade wars continue to wage in the U.S., farm equipment sales numbers mirror the uncertainty within the industry. U.S. sales saw minimal growth in most categories while Canada dropped in all but two, according to the latest AEM sales data.

In the U.S., total two wheel drive tractor sales increased by a slight 1.6 percent compared to May of 2018. Broken down by horsepower, under 40 h.p. tractors experienced a small .7 percent growth, 40 to 100 h.p. tractor sales grew 2.9 percent and 100 plus h.p. tractors saw a 8.6 percent growth in sales.

Likewise, total four-wheel-drive tractor sales increased by 1.6 percent compared to May of 2018 and 6.3 percent for year-to-date sales from 2018. Overall, total farm tractor sales experienced a minimal 1.6 percent growth which was essentially overshadowed by the 13 percent drop in sales for self-propelled combines.

While U.S. numbers may have seen slight increases, Canada saw major decreases, raising concern at AEM. Sales of under 40 h.p. and 100 plus h.p. two wheel drive tractors were the only categories that experienced growth for Canada. The rest of the categories declined in sales with some seeing drop-offs as bad as 20.8 percent for 40 to 100 h.p. tractors and 56.4 percent for total 4 wheel drive tractors.

"While numbers were up for the U.S. in May, the ongoing trade war has us concerned about the direction they may take in coming months," said Curt Blades, AEM senior vice president, ag services. "Free trade is critical to keeping the U.S. economy and our industry strong. Especially when you consider 30 percent of the equipment manufactured in the U.S. each year is earmarked for export."

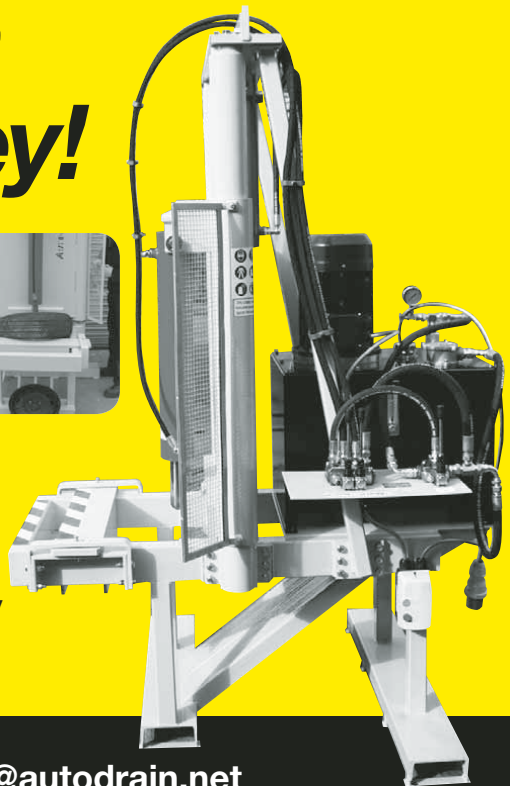
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WASTE

Casella reports quarterly results

Casella Waste Systems, Inc., a regional solid waste, recycling and resource management services company, reported its financial results for the three month period ended June 30, 2019.

Second Quarter and Year-To-Date Highlights:

- Revenues were \$187.5 million for the quarter, up \$21.8 million, or up 13.2 percent, from the same period in 2018.

- Overall solid waste pricing for the quarter was up 5.1 percent, driven by strong collection pricing, up 5.5 percent, and robust landfill pricing, up 6.0 percent, from the same period in 2018.

- Net income was \$11.9 million for the quarter, up \$10.2 million, or up 599.2 percent, from the same period in 2018.

- Adjusted EBITDA was \$40.4 million for the quarter, up \$3.3 million, or up 8.9 percent, from the same period in 2018.

- The company has acquired approximately \$18.5 million of annualized revenues year-to-date, and as previously announced has signed an asset purchase agreement for the acquisition of assets generating approximately \$30.0 million of annualized revenues, which is expected to be completed in the third quarter.

“We are pleased with our results in the second quarter, as we continued to execute well against our key strategies as part of our 2021 plan,” said John W. Casella, chairman and chief executive officer of Casella Waste Systems, Inc. “We remain focused on driving Normalized Free Cash Flow growth by increasing landfill returns, improving collection profitability, creating incremental value through resource solutions, using technology to drive profitable growth and efficiencies, and prudently allocating capital for strategic growth.

“Our solid waste pricing programs are running ahead of budget as we advanced 5.5 percent pricing in the collection line-of-business and 6.0 percent pricing at the landfills, for overall solid waste price of 5.1 percent during the second quarter,” Casella said. “Solid waste volumes were up 0.4 percent in the quarter, driven by growth in landfill volumes as we began to selectively ramp up landfill volumes to take advantage of higher priced materials through the summer months. We expect positive disposal volumes through the remainder of the year as we bring new expansion capacity on at one of our New York landfills. Collection volumes were down slightly in the quarter as we continued to focus on shedding unprofitable work and advancing pricing in excess of heightened inflation.

“We continued to make great progress improving recycling contract structures and off-taking commodity risk during the second quarter,” Casella stated.

EPA celebrates 20 years of superfund redevelopment

The U.S. Environmental Protection Agency (EPA) commemorated the 20th anniversary of the Superfund Redevelopment Initiative (SRI), launched in 1999 with the goal of returning formerly contaminated lands to long term sustainable and productive reuse for communities across the country. Returning superfund sites back to productive use has resulted in dramatic changes in communities by improving the quality of life, raising property values, and providing needed services to communities.

In the Los Angeles area, EPA’s deputy regional administrator for the Pacific Southwest, Deborah Jordan, was joined by the City of Monterey Park Mayor Hans Liang; M & M Realty Partners, the developers of the Monterey Park Market Place Shopping Center; and Operating Industries Inc. Site Custodial Trust, the party responsible for the Superfund site cleanup, to recognize the successful reuse accomplished at the Operating Industries, Inc. site in Monterey Park, California.

“Over the past 20 years, the Superfund Redevelopment Initiative has proven that incorporating reuse early in the process removes barriers to redevelopment and ensures that cleanup plans promote future economic and recreational opportunities,” said EPA administrator Andrew Wheeler. “Thanks to SRI, hundreds of formerly contaminated sites have been transformed into hubs of economic, recreational, or residential activity. Promoting redevelopment and community revitalization is a top priority of this administration and one of the key goals of the Agency’s Superfund Task Force.”

The Operating Industries Inc. Landfill is a 190 acre site located in Monterey Park, about 10 miles east of downtown Los Angeles. Landfilling operations at the site took place from 1948 to 1984. EPA listed the site on the National Priorities List in 1986.

Previously, an innovative landfill gas treatment system converted landfill gas into electricity, meeting more than half the remedial system’s energy requirements.

Today, there is a 500,000 sq.ft. retail center constructed on site that hosts a variety of stores, restaurants and parking. Additional redevelopment opportunities exist at the site, including solar development potential. The area surrounding the site is heavily developed, with mixed general commercial/industrial and residential land use and small pockets of open space.

Before the agency’s Redevelopment Initiative, sites were cleaned up but not necessarily put back into productive use. By considering reuse early in the site cleanup process, the Redevelopment Initiative helps ensure that desired future uses are compatible with

site cleanup remedies and removes barriers that could keep areas vacant or underused.

Depending on site conditions and community preferences, sites can be reused for a multitude of purposes, including commercial, recreational, ecological and residential uses. The Initiative has helped communities turn former lumberyards into parks, landfills into solar farms, former smelters into health clinics and gravel pits into baseball fields. EPA provides communities with points of contact, as well as case studies and best practices to help bring these projects to fruition.

Overall, approximately 1,000 superfund sites are in reuse today – more than half the number of sites on Superfund’s National Priorities List. EPA has data on over 8,600 businesses at 529 of these sites. In fiscal year 2018 alone, these businesses generated \$52.4 billion in sales, which is more than four times the amount EPA has spent at these sites. These businesses employed more than 195,000 people who earned a combined income of \$13 billion. Over the last 7 years, these businesses generated at least \$263 billion in sales.

Superfund redevelopment can also lead to energy independence. Today, 59 Superfund sites are home to alternative energy facilities. As of September 2018, these facilities provided enough energy to power about 95,000 homes. Wind, solar and landfill gas facilities make up about 92 percent of these projects. For example, a 7-megawatt solar farm at the Brick Township Landfill site in New Jersey powers all municipal buildings and community park facilities in the township. A solar array at the Continental Steel site in Kokomo, Indiana, provides enough energy to power 1,000 homes.

Over the last few years, as part of the Superfund Task Force work, EPA developed a list of Superfund National Priorities List sites with the greatest expected redevelopment potential. The list helps promote a renewed focus on accelerating progress at all Superfund sites.

First west-coast AI-powered waste sorting is operational

San Jose based Zanker Recycling, a leader in construction and demolition (C&D) materials processing systems, and recycling and Plexus Recycling Technologies, the North American distributor of ZenRobotics, an experienced AI robotics team for sorting waste materials, announced that ZenRobotics’ ZRR2 AI Robots are operational at Zanker Recycling’s San Jose site.

“The advantage of deploying AI robotics to recycling differentiates Zanker from our competitors,” said Michael Gross, director of sustainability for Zanker Recycling. “Reaching the diversion goals for our multiple judications is extremely important to us, which is why we chose Plexus Recycling Technologies as our partner in reaching these goals.”

The ZenRobotics ZRR2 AI operates 20 hours per day with total system production of 150,000 tons per year increasing diversion of recyclables by 20 percent.

Students from the nearby Boys & Girls Club of Silicon Valley, located in Alviso, participated in the naming of Zanker’s four AI robots. The winning entries were Clean-up Carl, Magneto, Snatcher and Thrasher and the submitting students each received a \$250 gift certificate.

In a new twist for recycling systems, material feeding is highly automated from the beginning of the process. The front end operates 50 percent of the time to process inbound material. In the middle of the system are two large dosing bunkers that store up to 100 tons of material. The ZenRobotics Brain controls these along with all equipment downstream to allow a very smooth-running operation focused on recovery and efficiency.

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WASTE

NYC Sanitation promotes three 3-star chiefs

New York City Department of Sanitation Commissioner Kathryn Garcia has promoted three new three-star chiefs, as well as the new head of its operations management division.

Anthony Bianculli has been promoted to head the department's bureau of information technology, the bureau that manages the department's expansive computing and technology functions.

Chief Bianculli began his career with the Department in July 2000 as a sanitation worker assigned to the Queens 5 garage, serving Ridgewood, Maspeth, Middle Village and Glendale. He was promoted to supervisor and assigned to the bureau operations office where he was responsible for all daily reporting for the chief of operations, disseminating snow orders and coordination of citywide support

during snow operations and special events, among other duties.

Chief Bianculli also has served as a rotating officer assigned to Brooklyn North Borough and a Borough operations superintendent. More recently, Bianculli worked for the department's bureau of information and technology where he oversaw the growth and enhanced development of the SMART system.

Paul Brown has been promoted to head the department's personnel management division, the group that monitors, controls and supports uniform and civilian staffing needs for the bureau of cleaning and collection.

Brown began his career with the department in October 1999 assigned to the Manhattan 9 garage, serving the Hamilton Heights, Manhattanville and Morningside Heights neighborhoods. After the terrorist attacks in September 2001, Brown worked on clean-up efforts, and worked at the World Trade Center site until cleaning efforts were completed. Brown also worked in the department's operations office.

Brown was promoted to supervisor in 2004 and was assigned to the Manhattan 8 garage. He was promoted to superintendent in 2007, and worked in both the Manhattan 7 garage and the operations office. Brown was later promoted to deputy chief and served in the department's cleaning, collection and field inspection and audit team (FIAT) offices. Brown was promoted to assistant chief in the FIAT office. Most recently, he worked in the department's personnel management division office as an assistant chief.

Chief Garrett O'Reilly has been promoted to head the department's collection office. The collection office is responsible for daily oversight of all collection activities, including trash, recycling, organic material and all other waste.

O'Reilly began his career with the Department in 1999 as a sanitation worker assigned to the Queens West 2 garage, serving Woodside, Sunnyside and Long Island City. In 2005, he was promoted to Supervisor, assigned to the Queens 5 garage.

O'Reilly also served as the district superintendent of the Queens East 7 where he directed emergency response to tornadoes and was deputy chief Queens East Borough where he man-

aged Hurricane Sandy and Hurricane Irene cleanups for the department. His time as assistant chief for cleaning operations saw street cleanliness ratings rise to 95.9 percent "acceptably clean," the highest citywide final rating since the program's inception in 1975. Most recently, O'Reilly was the Manhattan Borough chief, overseeing borough operations, including planning, staffing, and scheduling of all cleaning, collection, snow removal, special events, and emergency response operations in Manhattan. He oversaw cleaning operations in Times Square during the coldest New Year's Eve in 100 years, and during the 2019 World Pride festivities, which were attended by some five million people.

Chief Javier Lojan will serve as the head of the department's operations management division, the bureau responsible for monitoring, analyzing and strategizing ways to improve operations, productivity and performance. Lojan was most recently head of the department's personnel management division.

Lojan began his career with the department in October 1999 as a sanitation worker assigned to the Manhattan 10 garage, serving the Harlem area and Queens 6 garage, serving Forest Hills and Rego Park. He was next a supervisor at the Queens 4 garage, directing operations in the Corona and Elmhurst neighborhoods.

Lojan has served as a district superintendent for two Manhattan garages, managing and supervising the garage, including organizing snow removal operations in high traffic areas and coordinating special event clean-ups such as parades and celebrations. Lojan has also worked as a member of the department's field investigation and audit team, and was promoted to deputy chief, serving in the cleaning operations office and in the operations management division. He was the Queens West Borough chief where he was responsible for overseeing the daily cleaning, collection and snow removal operations for all districts in Western Queens. Under his leadership, the Queens West Borough successfully implemented the roll out of the initial SMART operations board, and the district reached its highest Street Cleanliness Scorecard Rating in more than 18 years, 95.4 percent in Fiscal Year 2017.

Georgia cities select Meridian Waste

Meridian Waste, an integrated, non-hazardous solid waste services company, was awarded solid waste services contracts by both the City of Wrens and the City of Louisville, Georgia at recent council meetings.

Beginning September 2, Meridian Waste will provide residents with once a week garbage collection utilizing 95 gallon carts. The residential carts had been delivered by August 30th to each home along with detailed collection education

materials, company contact information, and the opportunity to sign up for service alerts. The fee for solid waste services will be paid by the cities to Meridian Waste and remain as a line item on residential units' water bills.

Williams and the Meridian Waste team members are veterans of the local market, as they have led the Augusta operations for Advanced Disposal for many years prior to joining forces with Meridian Waste.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

The advantages of doing more in less time

Of course, we only have a limited amount of time; it's not something we can get more of, so we better learn to do more with the time we have. In the business world, there are two main reasons to hone the skill of valuing and managing your time:

1. Lower stress and better quality of life

Do more in less time and the extra time you have left can be used to do things you enjoy and thereby improve the quality of your life by lowering your stress level. For example, you can enjoy your current income stream and travel more or do other things that you enjoy.

2. Extra time to grow your business

By doing more with less, you can take the extra time and use it to do other things that grow your business. For instance, you can undertake an extra growth initiative every month and double the size of your business without working more.

Some of you are probably skeptical about that last point. However, you need to open your minds to the Pareto Principle: 80 percent of your results come from 20 percent of your efforts. Less really can be more. You can, for instance, spend 30 minutes writing a blog post. (Or a business letter, memo, etc.) You can spell check and glance over it and use it. Or, you can easily spend another hour on it, trying to make it just perfect and polished. And you know, intuitively, that the extra hour likely didn't add much value, but it makes you feel better.

The extra time isn't always a waste. You do have to prioritize. Some projects are more important than others. For instance, a letter to the editor that you expect to be published in the business press is much more critical than a ho-hum blog post that will attract only a few readers.

The problem is that most people who want things perfect treat each thing they work on the same, and that's just not a good value proposition. People laugh, but I tell them to expect to tolerate some mediocrity. This is also very true in business planning.

You can likely prepare an initiative and outline the goals, risks and action plan in an hour or so. Seek some input from others, spend another hour. Or, you can have lots of meetings and feedback, with many iterations of the plan. And it will get better, more polished. But I bet if you look at the one you did in two hours, you will find that it has 80 percent of the content of the polished plan. The quick plan will not cover every nuance and exception, but so what.

Speed of execution is much more important than perfection of the plan. For instance, you might do 12 initiatives in a year with an abbreviated method or only one per quarter if you obsess over the planning. Launching 12 initiatives is far better than only 4. The larger number insulates you from failures. Some will work and some won't.

So, how can you do more in less time? Here are six steps you can take right now to become more productive:

1. Learn to delegate.
2. Stop doing administrative tasks.
3. Think bigger. Often it takes almost the same amount of effort to accomplish a larger task as a smaller one.
4. Stop doing things that don't really add much value or that only polish.
5. Surround yourself with people who are smarter than you or who can do things that you can't, won't or shouldn't do.
6. Be more organized.

Remember, only you can make BUSINESS GREAT!

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

AUTOMOTIVE

Novelis launches new auto aluminum product

Novelis Inc has launched Advanz™ 6HS-s650, a precisely engineered aluminum automotive body sheet product that exceeds industry standards for strength, lightweighting, formability, performance and structural integrity. It is the strongest 6xxx series product with a 15 to 25 percent in-service strength advantage over incumbent high strength aluminum alloys and exhibits excellent crash behavior and corrosion resistance.

Available globally as part of the Novelis Advanz product portfolio, 6HS-s650 demonstrates the company's commitment to collaborating with customers to deliver a variety of strong, formable and lightweight aluminum products that are driving the future of the automotive industry. It is targeted for applications demanding high in-service strength, such as A and B pillars, floors, tunnels, rockers, side impact door beams, bumper beams, roof rail inserts, underbody frames and electric battery enclosures' components.

For many applications, 6HS-s650 enables a reduction of process costs and complexity by eliminating post-form

heat treatment while enabling up to 45 percent lighter weight than high strength steels. 6HS-s650 joins effectively with other automotive structural materials and provides longer-term flexibility in the supply chain due to superior shelf life characteristics.

"Automakers demand the highest-strength solutions for substantial lightweighting, and s650 meets that requirement in a very efficient way," said Pierre Labat, vice president automotive, Novelis Inc. "By providing a product that is stronger than existing aluminum alloys without sacrificing formability, automotive designers and engineers will have even more flexibility to lightweight the cars, trucks and SUVs of the future."

This latest product offering, 6HS-s650, can be easily recycled into new high-strength aluminum products as part of a closed-loop recycling process. This enables Novelis and its customers to maximize the value of the product, reduce CO2 and transportation costs, minimize environmental impact and establish a secure supply chain.

One day a college professor of Psychology was greeting his new college class. He stood up in front of the class and said, "Would everyone who thinks he or she is stupid please stand up?"

After a minute or so of silence, a young man stood up.

"Well, good morning. So, you actually think you're a moron?" the professor asked.

The kid replied, "No sir, I just didn't want to see you standing there all by yourself."

Development continues on Ford all-electric F-150 Prototype tows over 1 million pounds



Ford has published a video showing Linda Zhang, chief engineer of the Ford F-150, show the capability of a prototype all-electric F-150 by towing 10 double-decker rail cars and (42) 2019-model year F-150s, weighing more than 1 million pounds.

Ford has confirmed it will bring the all-electric F-150 to market. This will be in addition to the new F-150 Hybrid that goes on sale next year. Both electrified models will have the toughness, capability and innovation that Ford customers expect.

Adesa creates new position for Drehs

Adesa, a business unit of vehicle remarketing and technology solutions provider KAR Auction Services Inc., named Scott Drehs vice president of major dealer accounts – a newly created role. Drehs, a 30 year auto industry veteran, remains in the KAR family, joining Adesa after serving in leadership roles for nearly 15 years at AFC.

In his new role, Drehs will direct the team that develops relationships with Adesa's large scale buyers and sellers. Drehs' team will work with dealers to seamlessly implement Adesa's offerings into their workflows.

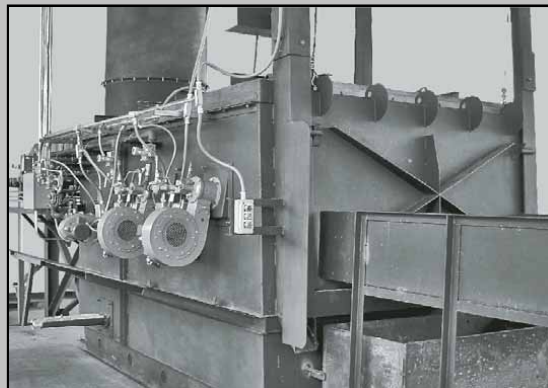
Drehs joined the automotive finance industry in 1989 and has extensive remarketing and finance experience.

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SIERRA 500T STATIONARY SHEAR

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2015 WENDT TROMMEL

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METALS

U.S. DOC issues affirmative preliminary antidumping duty on carbon and alloy steel threaded rod from Thailand

The U.S. Department of Commerce announced an affirmative preliminary determination in the antidumping duty (AD) investigation of imports of carbon and alloy steel threaded rod from Thailand, finding that exporters from Thailand have dumped steel threaded rod in the U.S. at a margin of 20.83 percent.

As a result of this decision, Commerce will instruct U.S. Customs and Border Protection (CBP) to collect cash deposits from importers of carbon and alloy steel threaded rod from Thailand based on the preliminary rate noted

above. Because Commerce also preliminarily determined that critical circumstances exist, we will instruct CBP to begin suspending entries 90 days before the publication of the preliminary determination in the Federal Register.

In 2018, imports of carbon and alloy steel threaded rod from Thailand were valued at an estimated \$5.8 million.

The petitioner is Vulcan Threaded Products Inc. (Pelham, Alabama).

The strict enforcement of U.S. trade law is a primary focus of the

Trump Administration. Since the beginning of the current Administration, Commerce has initiated 179 new antidumping and countervailing duty investigations – this is a 231 percent increase from the comparable period in the previous administration.

Commerce currently maintains 489 antidumping and countervailing duty orders which provide relief to American companies and industries impacted by unfair trade.

Commerce is scheduled to announce the final determination on or about October 15, 2019.

June 2019 steel shipments down

The American Iron and Steel Institute (AISI) reported that for the month of June 2019, U.S. steel mills shipped 7,718,499 net tons, a 5.2 percent decrease from the 8,142,270 net tons shipped in the previous month, May 2019, and a 3.4 percent decrease from the 7,988,026 net tons shipped in June 2018. Shipments year-to-date in 2019 are 48,223,245 net tons, a 1.9 percent increase vs. 2018 shipments of 47,304,057 net tons for six months.

A comparison of June shipments to the previous month of May shows the following changes: hot dipped galvanized sheets and strip, up 2 percent, cold rolled sheets, down 5 percent, and hot rolled sheets, down 6 percent.

Liberty Steel acquires Johnstown Wire Technologies

Sanjeev Gupta's Liberty Steel, part of the global GFG Alliance, further expanded its footprint in the U.S. steel downstream products market with the acquisition of Johnstown Wire Technologies (JWT) in Johnstown, Pennsylvania, the largest producer of value-added carbon and alloy wire in North America.

The acquisition from private investment firm, Aterian Investment Partners, was financed by group equity along with loans from PNC Business Credit and gives Liberty valuable capacity to manufacture a range of high-value carbon and

alloy wire products for multiple end markets including the infrastructure, automotive, utility and consumer sectors.

The 250 worker advanced manufacturing facility at Johnstown will complement Liberty's melting and rolling operations at Georgetown, South Carolina and Peoria, Illinois and, combined with its scrap processing plant in Tampa, Florida, will firmly embed the business along the full value chain in the U.S. steel market.

The 638,000 sq.ft. Johnstown site has been a high profile steel manufactur-

ing facility for over 100 years and is a top 3 U.S. producer of the types of steel that will be needed to modernize America's aging infrastructure - CHQ, electro-galvanized, aluminized and spring wire. JWT currently holds the number one market position in the electro-galvanized and aluminized sectors.

Liberty Steel intends to drive growth at JWT as the U.S. updates its infrastructure and electricity networks, thereby increasing demand for steel products such as support cables and guard rails for bridges and for electrical power lines.

With more than half of JWT's output sold into the transportation market, Liberty is also aiming to capitalize on continued growth in U.S. vehicle production. It is the third largest producer in the U.S. of CHQ wire, which is used in automotive products such as engine block bolts and brake pad rivets.

The acquisition will also add substantially to Liberty's capability to meet the 'Made in America' specifications required for public infrastructure and utility contracts.

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METALS

AISI releases 2018 ASR report

The American Iron and Steel Institute (AISI) has released its 2018 Annual Statistical Report (ASR), which provides comprehensive data on the U.S. steel industry and select data on the North American steel industry as a whole. In 2018, total steel imports into the U.S. decreased 12 percent compared to the previous year, while finished steel imports decreased 13 percent over the same period and captured a 23 percent share of apparent steel consumption, down 4 percentage points from the previous year. Shipments from domestic steel mills measured 95.3 million net tons (NT) in 2018, up 5 percent from the previous year. Shipments in 2018 were 4 percent higher than the average of 91.5 million net tons seen from 2013 to 2017. The report also notes that U.S. raw steel production was 95 million net tons in 2018, a 6 percent increase from 2017. The construction and automotive industries continued as the leading end-use markets for shipments of U.S. steel products.

The AISI report is the most comprehensive reference of its kind, providing statistical data for the U.S. steel industry and a variety of selected statistical data on the Canadian, Mexican and world steel industries. It features extensive charts and graphs, including

selected statistical highlights on shipments, apparent supply, imports, employment and raw steel data over a 10 year period; selected financial highlights; shipments by products and markets over a 10 year period; raw steel production (including selected state-level production data) and capability utilization; and, detailed imports and exports data.

“The steel industry has been at the center of the economic policy debate on both national and global levels over the last year, and the AISI Annual Statistical Report serves as a critical source of industry data. The ASR is a comprehensive and reliable reference for steel industry statistics, including an executive summary that features trends in the North American steel industry,” said AISI president and chief executive officer Thomas J. Gibson. “The 135 page report includes numerous charts, graphs and other thorough industry information. We are proud that the ASR remains the industry standard for reporting on the steel market in the United States. I encourage anyone who is interested in industry data to purchase a copy.”

For details about purchasing a copy of the report, view this article on www.AmericanRecycler.com.

A girl was given a tea set for her second birthday. It became one of her favorite toys, and when her mother went away, the toddler loved to take her father a little cup of tea, which was just water really, while he was watching TV. He sipped each “cup of tea” he was brought and praised her, leaving the little girl immensely proud.

Eventually the mother returned home and the father showed her the tea fun. On cue, the girl brought him his “cup of tea” and he sipped it.

The mother watched him drink it and said, “Did it ever occur to you that the only place she can reach to get water is the toilet?”




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$273.00	263.00	294.00	289.00	290.00
#1 Bundles	per gross ton	272.00	245.00	289.00	288.00	282.00
Plate and Structural	per gross ton	280.00	249.00	254.00	284.00	275.00
#1 & 2 Mixed Steel	per gross ton	210.00	241.00	230.00	259.00	267.00
Shredder Bundles (tin)	per gross ton	149.00	158.00	163.00	162.00	164.00
Crushed Auto Bodies	per gross ton	149.00	158.00	163.00	162.00	164.00
Steel Turnings	per gross ton	82.00	85.00	93.00	150.00	130.00
#1 Copper	per pound	2.39	2.49	2.42	2.33	2.29
#2 Copper	per pound	2.28	2.38	2.21	2.11	2.11
Aluminum Cans	per pound	0.65	0.66	0.51	0.53	0.48
Auto Radiators	per pound	1.47	1.43	1.43	1.60	1.54
Aluminum Core Radiators	per pound	0.63	0.56	0.42	0.43	0.41
Heater Cores	per pound	1.05	1.12	1.07	1.12	1.15
Stainless Steel	per pound	0.55	0.56	0.51	0.50	0.54

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

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Steel import permit applications increase 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 totaled 3,574,000 net tons (NT). This was a 31.0 percent increase from the 2,728,000 permit tons recorded in June and a 75.1 percent increase from the June final imports total of 2,041,000. Import permit tonnage for finished steel in July was 1,882,000, up 8.9 percent from the final imports total of 1,728,000 in June. For the first seven months of 2019 (including July SIMA permits and June final imports), total and finished steel imports were 19,213,000 NT and 13,575,000 NT, down 8.0 percent and 16.2 percent, respectively, from the same period in 2018. The estimated finished steel import market share in July was 19 percent and is 21 percent year-to-date (YTD).

Finished steel imports with large increases in July permits vs. June final imports included cut lengths plate (up 56

percent), line pipe (up 33 percent), plates in coils (up 28 percent), hot rolled bars (up 25 percent), sheets and strip hot dipped galvanized (up 22 percent), hot rolled sheets (up 18 percent), mechanical tubing (15 percent), heavy structural shapes (up 14 percent), wire rods (up 14 percent), and standard pipe (up 13 percent). Products with significant year-to-date (YTD) increases vs. the same period in 2018 include black plate (up 64 percent), steel piling (up 43 percent) and tin free steel (up 19 percent).

In July, the largest finished steel import permit applications for offshore countries were for South Korea (202,000 NT, up 24 percent from June final), Japan (96,000 NT, down 15 percent), Taiwan (81,000 NT, down 6 percent), Germany (78,000 NT, down 22 percent) and Brazil (75,000 NT, up 391 percent). Through the first seven months of 2019, the largest offshore suppliers were South Korea (1,652,000 NT, down 15 percent from the same period last year), Japan (819,000 NT, down 6 percent) and Germany (694,000 NT, down 8 percent).

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METALS

Novelis reports first quarter of fiscal 2020 results

Novelis Inc., a leader in aluminum rolling and recycling, reported net income attributable to its common shareholder of \$127 million for the first quarter of fiscal year 2020, compared to \$137 million in the prior year period. Excluding tax-effected special items, such as \$33 million in favorable metal price lag in the prior year, the company reported net income of \$145 million in the first quarter of fiscal 2020, compared to \$115 million in the prior year period. This 26 percent increase is primarily due to higher Adjusted EBITDA.

Adjusted EBITDA increased 11 percent over the prior year period to \$372 million in the first quarter of fiscal 2020, primarily driven by higher total shipments as well as favorable price and product mix, partially offset by less favorable recycling benefits due to lower aluminum prices. Adjusted EBITDA per ton reached \$448 in the quarter, as compared to \$419 in the prior year period.

Net sales decreased six percent over the prior year period to \$2.9 billion for the first quarter of fiscal 2020, driven by lower average aluminum

prices and local market premiums, partially offset by higher total shipments and more favorable product price and mix. Shipments of flat rolled products increased four percent over the prior year to 830 kilotonnes.

The company reported negative \$94 million of free cash flow for the first quarter of fiscal 2020, including a three-fold increase in capital expenditures year-over-year to \$162 million mainly to support strategic capacity expansion projects underway in the US, China and Brazil. Free cash flow before capital expenditures improved 36 percent over the prior year period to \$68 million, driven primarily by higher Adjusted EBITDA and favorable working capital from lower aluminum prices and inventory levels.

First quarter fiscal year 2020 highlights:

- Net income attributable to common shareholder of \$127 million; excluding special items, net income of \$145 million
- Adjusted EBITDA of \$372 million
- Net sales of \$2.9 billion
- Shipments of 830 kilotonnes

Nucor Steel names general manager for new plate mill

Nucor Steel Kankakee vice president and general manager Johnny Jacobs has accepted an offer to lead the steelmaker's planned \$1.35 billion plate mill in Kentucky, the company has said.

Nucor said Jacobs is heading to Brandenburg, Kentucky, to oversee the mill's construction and hiring. He'll also oversee operations once it's up and running, which is expected to occur in

2022. The mill is Nucor's single largest investment in its history.

Succeeding Jacobs is 16 year Nucor veteran Jon Witherow.

Witherow began his Nucor career in 2003 at Nucor's plate mill in Hertford County, North Carolina. He later worked at Nucor mills in Ohio and South Carolina, and in 2017, he was named general manager of Nucor's Italy joint venture, Duferdofin-Nucor.

Bunting Magnetics celebrates 60th anniversary and rebrands as Bunting

Bunting Magnetics Co. celebrated its 60th anniversary as a company in August. Since being founded in 1959, Bunting Magnetics Co. has grown from a small company in Chicago, Illinois, to a growing global force with multiple locations in the U.S. as well as abroad. Bunting Magnetics Co. has acquired several different companies over the years, and in celebration of the 60th anniversary the company has made the decision to launch a major rebranding effort, unifying all of our divisions under the single brand name "Bunting."

Previously, the acquired companies retained their original names and were designated as being "A Bunting Magnetics Company." Now, rather than having multiple names to differentiate between divisions, each division will be described as Bunting – Newton, Bunting – Redditch, and so on.

The decision to rebrand was made with the goal of uniting all companies associated with the Bunting brand under one name, eliminating confusion for customers and establishing the Bunting brand as a world force.

PAPER

AF&PA releases updated paper reports for July 2019

The American Forest & Paper Association released its July 2019 U.S. paper reports.

Containerboard

Containerboard production in July 2019 decreased 7.8 percent compared to July 2018 and was down 5.3 percent year-to-date. The average daily production compared to June 2019 was 2.5 percent higher.

The containerboard operating rate increased from 89.1 percent in June to 89.9 percent. While the total linerboard rate increased to 88.0 percent, it has been below 90 percent in five out of seven months this year. The July total operating rate was 8.7 points lower than the same month last year and the year-to-date operating rate was down 6.6 points. Production for export, most of which is linerboard, was down 18.3 percent month-over-month and was down 18.5 percent year-to-date.

Printing-Writing Paper Report

According to the July 2019 Printing-Writing Monthly report from AF&PA, total printing-writing paper shipments decreased 12 percent in July compared to July 2018. U.S. purchases of total printing-writing papers declined seven percent in July compared to the same month last year. Total printing-writing paper inventory levels decreased one percent from June 2019.

• U.S. shipments of coated free sheet (CFS) paper decreased 15 percent in July from the same month one year ago. The inventory level of CFS papers remained flat in July compared to June. CFS imports and exports both declined in June 2019.

• U.S. purchases of coated mechanical (CM) papers increased five

percent in July when compared to July 2018. Inventories decreased three percent compared to last month. Imports of CM papers in June 2019 increased 16 percent while exports decreased ten percent.

• U.S. shipments of uncoated free sheet (UFS) papers decreased 11 percent year-over-year in July while U.S. purchases of uncoated mechanical (UM) paper decreased nine percent. Inventory levels at the end of July when compared to June decreased for both UFS and UM papers. In June exports of UFS and UM both decreased year-over-year, while UFS imports increased and UM imports decreased.

Boxboard Report

Total boxboard monthly production decreased 1.0 percent when compared to July 2018. The total boxboard operating rate was 93.8 percent for July. Total Solid Bleached Boxboard and Liner production decreased 0.9 percent year to date; Recycled Boxboard production fell 1.0 year to date; and Unbleached Kraft and Gypsum decreased 0.5 percent year to date.

U.S. Packaging Papers & Specialty Packaging

Total packaging papers shipments were down 13.0 percent from July 2018 and down 4.6 percent year-to-date. Bag and sack shipments were down 3.1 percent year-to-date; multiwall shipments were down 11.8 percent; food wrapping shipments were up 4.1 percent; and converting shipments were down 7.1 percent. The operating rate for July dropped to 81.6 percent compared to 86.2 percent in June. Inventory levels decreased one percent from June.

Cascades Inc. announces record sales and quarterly dividend increase

Cascades Inc. delivered record quarterly sales and adjusted OIBD that were in line with expectations in the second quarter. According to Mario Plourde, president and chief executive officer, tissue results were supported by favorable input costs and selling prices and better operational performance, notably at the St. Helens mill in Oregon, containerboard packaging performance reflected lower OCC prices and good operational flexibility within a context of softer demand and pricing pressure, while European boxboard and specialty products results benefited from recent business acquisitions.

Cascades had acquired substantially all of the Orchids Paper Products assets in early July. This move provided compelling optimization opportunities for the tissue platform while reinforcing the operational foundation of this

segment's U.S. consumer product business. The addition of these assets accelerated Cascades' ongoing tissue modernization plan, and is aligned with their efforts to enhance the quality of their products.

Cascades announced that they are increasing the quarterly dividend from \$0.04 to \$0.08 per share. This step reflects the strong asset base and financial fundamentals. By continuing to prioritize capital investments and debt reduction in their capital allocation, and with this dividend increase, amounting to approximately \$15 million annually, it will not impact their financial flexibility to continue to focus on these priorities for creation of shareholder value. At the same time, they are providing shareholders with a higher cash return on investment that is better aligned with the industry.

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PLASTICS

Otsego County, NY starts foam polystyrene recycling

Residents in Otsego County, New York will now have the opportunity to recycle foam polystyrene through a county program, thanks to a \$50,000 grant from the Foam Recycling Coalition (FRC). The county's program will focus on receiving foam cups, plates, take-out containers, egg cartons, trays and blocks from local commercial businesses and self-delivery from residents.

The new grant funding allows Otsego County to purchase and install a densifier, finish its polystyrene processing center build out, collect materials, and focus on education and outreach.

The county committed to establishing a foam polystyrene recycling program as part of Otsego County's 2018 Solid Waste Management Plan. The program partners with a local non-profit organization, Arc Otsego. Arc Otsego will provide staffing at the existing ReUse Center, and the county will assist with promotion and marketing.

Lynn Dyer, president of the Food-service Packaging Institute, which houses the coalition said, "Otsego County has shown a progressive atti-

tude toward diverting as much county materials as possible. The county's latest efforts on foam recycling mean these valuable materials are being recovered instead of landfilled."

The county, which has about 60,000 residents among 24 communities, supports recycling of traditional materials, while also providing options for batteries, electronics, mattresses, medications and fluorescent lightbulbs.

The grant is made possible through contributions to the FRC, which focuses exclusively on increased recycling of post-consumer foam polystyrene. Its members include Americas Styrenics; Cascades Canada ULC; CKF Inc.; Chick-fil-A; Dart Container Corp.; Dyne-A-Pak; Genpak; Hawaii's Finest Products; INEOS Styrolution America LLC; NOVA Chemicals Corp.; Pactiv Foodservice/Food Packaging; Republic Plastics; and TOTAL Petrochemicals & Refining USA.

Otsego County is the 11th grant recipient to receive FRC funding since 2015. Over 3 million additional residents in the U.S. and Canada can recycle foam as a result of FRC grants.

IntegriCo takes plastic that China will no longer accept

China once received 70 percent of plastic waste from around the world, but in January 2018, a ban was imposed that drastically decreased the amount plastic the country received. Globally, over 90 percent of plastic becomes waste, and IntegriCo is one company rising to the challenge to reduce this number in the United States.

"IntegriCo is proud to have diverted over 80 million pounds of plastic away from landfills," said Brian Gaughan, the company's vice president of business development. "This plastic has been turned into our composite products including IntegriTies™ railroad ties and construction matting through IntegriCo's innovative technology."

Over 34 million metric tons of plastics are sent to a landfill or incinerated in the U.S. and Canada each year. Once recycling is collected from a consumer's curbside, it is delivered to a material recovery facility (MRF). Items are sorted, baled, and then bought by both foreign and domestic companies to be turned into various materials. The bales vary in consistency, and plastic bales are sometimes contaminated or contain plastic of less-value that will

not be sold. Instead, it is sent to landfills throughout the country.

Plastic with the resin identification numbers of one, PET(E), and two, HDPE, are demanded the most from manufacturers using recycled plastic. This includes plastic bottles and jugs. Plastics with the numbers of three through seven are more challenged. IntegriCo is one U.S.-based company that will accept these types of plastics, along with mixed rigid plastic like buckets, laundry baskets, and crates.

IntegriCo is not only processing recycled plastics that others cannot, but they are also using an eco-friendlier approach than its competitors. IntegriCo utilizes a low temperature process that preserves the properties of plastic, while releasing less fumes, and its final products last longer than alternatives, producing less waste over time.

"IntegriCo is just one company closing the loop to prevent plastic waste by turning recycling plastic into new material that is long-lasting," continues Gaughan. "As cities struggle for recycling solutions, we aim to keep increasing production of composite material, so this plastic does not go into landfills, or worse, our oceans."

PureCycle and L'Oreal sign agreement for the supply of recycled polypropylene

PureCycle Technologies has reached a definitive agreement with L'Oréal, to supply its Ultra-Pure Recycled Polypropylene (UPRP).

The agreement results in the full subscription of the Ohio plant's capacity and provides L'Oréal at their option to be among the first purchasers of volume out of PureCycle's first plant in Europe. This is an important milestone for PureCycle, which is accelerating the build-out and commercialization of its technology in key global markets to keep up with demand. PureCycle's Ultra-Pure Recycled Polypropylene is produced from a breakthrough technology that utilizes waste polypropylene that is far too often disposed of in landfills to produce virgin-like polypropylene, unlocking a truly circular economy.

"We continue to see an increasing global need for a recycled resin with virgin-like properties. With our first plant in Ohio already being sold out more than two years before the plant will be producing commercial scale volumes, this showcases the intense demand resulting in an accelerated build out of our next plant in Europe," said Mike Otworth, chief executive officer of PureCycle Technologies.

In addition to being a customer, L'Oréal becomes a strategic partner for PureCycle which promotes consumer market knowledge, technical expertise and a global perspective to help ensure that PureCycle's Ultra-Pure Recycled Polypropylene meets and exceeds consumer demand for a recycled resin that delivers virgin-like aesthetics and performance.

PureCycle is in the midst of building its first plant in Lawrence County, Ohio. The facility will recycle 119 million pounds of polypropylene, producing over 105 million pounds per year with production slated to start in 2021.

Demand for the first plant's volume has far exceeded supply, leading PureCycle to begin planning for a second plant to keep up with demand. The company is currently evaluating locations within Europe.

PureCycle is the first company to solely focus on recycling and reintegrating polypropylene upstream into highly sensitive consumer product applications, which are used in food and beverage packaging, consumer good packaging, automobile interiors, electronics, home furnishings, and many other products.

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PLASTICS

Europe faces challenges in meeting plastic bottle recovery targets

The European recycling industry is going to miss a 2025 target for recycling PET bottles unless there is a reversal of the slowing growth rate in recovery, according to a new study by ICIS. The study also found evidence that regulation has become a greater driver to the increased use of recycled content in the bottle market.

In March, the European Parliament adopted the Commission-proposed Single-Use Plastics (SUP) Directive to increase the recycling of polyethylene terephthalate (PET), the main component in plastic bottles and containers for packaging foods and beverages and personal care products. This development was already supported by a range of international brands through their own recycling pledges.

The results of a study conducted by ICIS on the 2018 market were released, which looked at the supply chain – collection, recycling and end-use of PET. The report is a collaborative effort including national authorities, compliance agencies, deposit return schemes and recyclers. The conclusion is that the PET bottle collection rate in western Europe has risen from 58 percent in 2016 to 63 percent in 2018 and is projected to reach 65 percent in 2019. Under the SUP Directive the industry is

required to reach recovery rates of 77 percent by 2025 and 90 percent by 2029, but the collection volume growth rate is currently falling. ICIS estimates that the volume of collected material will need to increase by 7 percent per annum if the 2029 target is to be met.

Helen McGeough, ICIS senior analyst, Plastics Recycling explained the dynamics. “The rise in demand for RPET (recycled PET) began early on in 2018 as supply issues for virgin PET resin carried over from the end of 2017; this pushed up demand from sectors that could easily use either feedstock. This in turn pushed up prices as supply was constrained, since collection activity did not increase in line with demand. The drive for food-grade RPET came later in 2018, once the SUP Directive was passed.

“Despite the boost in demand for RPET, collection failed to match those growth rates, reaching 2.1 million tonnes in 2018 – just 2.4 percent growth on 2017 volumes. Tight supply saw PET bale prices rise 20 percent in 2018, compounded by the growth in reclamation capacity during the year that expanded to meet the downstream demand for RPET products.

“The reclamation industry increased production of RPET products

by 17 percent to 1.4 million tonnes and packaging applications absorbed two-thirds of that total. The capacity of food-grade RPET barely had time to build prior to the rush of supply enquires following the signing of the SUP Directive. As a result of the Directive, there was an increase of 13 percent in food grade RPET prices, which were generally accepted as these prices sat only 7 percent higher (on average) than virgin PET prices. However, this has changed considerably in 2019 with premiums of over 30 percent on average, peaking at near 50 percent so far this year.”

Looking ahead, collection volumes are projected to grow by less than 4 percent per annum over 2019-2020. If this growth rate is sustained in the longer term, the SUP Directive recovery targets will not be met.

The top seven highest collection rates in 2018 were found in countries with a deposit return scheme (DRS) in place for PET bottle collection, perhaps evidence that such systems are what is needed to produce the outcomes required in terms of quantity and quality improvements. Regulation is seen as the most effective way to drive investment in recycling – but agreeing who pays within the supply chain is an argument that will run for some time.

Berry Global sponsors sorting project

Berry Global, Inc. is sponsoring the Pacific Northwest secondary sorting demonstration project. The project is a 60 day recycling demonstration managed by the Plastics Industry Association (PLASTICS) which involves installing a portable secondary sorting system where selected materials from four regional materials recovery facilities (MRFs) will be further sorted. This innovation will help capture the value of six additional streams of recyclables which would have otherwise become waste.

Berry’s involvement with PLASTICS and other sustainability partners is part of the company’s three part sustainability strategy, Impact 2025. The company uses Impact 2025 to focus on three key areas as it relates to sustainability: products, performance and partners.

In addition to its work with PLASTICS, Berry has become an official signatory of the Ellen MacArthur New Plastics Economy Global Commitment. As part of the commitment, Berry has made a pledge for all their plastic packaging to be reusable, recyclable or compostable by the year 2025. Its hope is that they will accelerate efforts towards a circular economy.

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PLASTICS

Barco reused 16.8 million plastic bottles

Barco® Uniforms has prevented 16.8 million plastic bottles from polluting the environment since incorporating plastic bottles into the fabric of the Barco One and Skechers by Barco scrub collections.

Each Barco One garment incorporates 5 recycled plastic bottles and the brand has recycled 7.5 million bottles, while each Skechers garment is made from 7 recycled plastic bottles, resulting in 9.3 million recycled bottles to date.

"We are only starting to understand the devastating consequences of our global dependence on plastic and the pollution epidemic," said David Murphy, president and chief executive officer of Barco Uniforms. "Barco is proud to have taken concrete steps to keep plastic bottles out of landfills and the waste stream. Barco One and Skechers collections are the first lines of medical scrubs to incorporate a sustainable element into their fabric, and we are eager to see an increase in the number of bottles that we incorporate into our fabric technology in the years to come."

To create the sustainable fabric, Barco relies on a RPET process. First, the bottles are cleaned and then shredded into pellets. From there, the pellets are crushed and melted, and the melted plastic is spun into thread which is woven with polyester.

Reports show domestic purchasing of rigid plastics and film increases

Despite tough global market conditions, two new reports (the 2017 National Post-Consumer Non-Bottle Rigid Plastic Recycling Report and the 2017 National Post-Consumer Plastic Bag and Film Recycling Report) found that domestic U.S. purchasing increased by two percent for both categories in 2017.

The reports attributed recyclers' ability to sell to more domestic markets on the focus towards decreased contamination and increased segregation of resins. The category of film that increased in 2017 was material that is collected through retail collection programs including the Wrap Recycling Action Program.

However, the overall recycling totals (including exports) for both categories decreased, after having previously sustained growth. Prior to 2017, the volume of rigid plastics collected for recycling had increased nearly 4.5 times since 2007, and film recycling had grown for twelve consecutive years, more than doubling since 2005.

The first of the referenced reports found that recycling for post-consumer non-bottle rigid plastics dipped slightly in 2017. A minimum of 1.35 billion pounds was collected for recycling in 2017, down from 1.46 billion pounds in 2016 (a seven percent decrease). The second report which addressed post-

consumer plastic film recycling found that a minimum of one billion pounds of film was collected for recycling in 2017, an increase of 54 percent since 2005, but down from 1.3 billion pounds in 2016.

The reports attributed the decreases primarily to changes in the marketplace. China's policy to restrict imports of scrap heavily impacted film export. Non-bottle rigids also faced challenges due to older recycling infrastructure in the United States and Canada, which relied on China's market rather than added sorting technology.

"Improving plastics recycling and recovery will help us achieve a more circular economy, and we are resolved to do our part," said Steve Russell, vice president of the American Chemistry Council's Plastics Division. "In 2018 plastics makers committed to reuse, recycle, or recover all plastic packaging by 2040. Across the value chain – from resin producers to brands to recyclers – we see commitments to improve recycling education, invest in infrastructure, and use more recycled content. Aligning value chains to incorporate recycled materials into products that are sold and then brought back for recycling will promote circularity and help remedy the current disconnects. Additionally, emerging advanced recycling and recovery technologies, such as chemical

recycling, are growing to help meet demand for recycled content and drive a more circular economy. America's Plastic Makers® are taking action to respond to recycling challenges that will help us in the short term and long term."

Recycled plastic film is used in composite lumber, new film and sheet, agricultural products, crates, buckets, and pallets. Typical end markets for non-bottle rigid plastics include automotive parts, crates, buckets, pipe, lawn and garden products, and thick-walled injection molded parts.

Plastic film includes flexible product wrap, bags, and commercial stretch film made primarily from polyethylene. The rigid plastics category contains food containers, caps, lids, tubs, clamshells, cups, and bulky items, such as buckets, carts and lawn furniture, along with used commercial scrap, such as crates, battery casings, and drums. High-density polyethylene and polypropylene comprised the two largest resins in this category, representing 40 percent and 36 percent, respectively, of total rigid plastics collected.

Both the film and the rigids reports were based on an annual survey of reclaimers and exporters conducted by More Recycling and due to the methodology represents a conservative estimate of the amount recycled.

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BUSINESS BRIEFS

McDiarmid to lead EGLE communications team

■ The Michigan Department of Environment, Great Lakes, and Energy (EGLE) announced that Hugh C. McDiarmid Jr. has joined the EGLE executive team. McDiarmid will coordinate all communication activities for the department.

McDiarmid comes to EGLE from The Kresge Foundation where he directed both internal and external communications for the foundation's environmental program, which is focused on building climate change resilience in urban, low-income communities, among other key initiatives.

McDiarmid has more than 30 years of experience in journalism and communications including a decade with The Detroit Free Press, where he reported extensively on environmental issues. He also directed communications efforts for the Michigan Environmental Council for eight years and more recently oversaw outreach for the Great Lakes Office of the International Joint Commission. A resident of Farmington, he will be based in Lansing and head EGLE's Office of Public Information.

A wife and husband both talked in their sleep. She loved auctions; his hobby was golf.

The other night, as they slept, the golfer yelled, "Fore!"

His wife yelled back, "Four and a quarter!"

Stellar Industries names new product manager

■ Stellar Industries, Inc. has added Tim Worman as the newest addition to the team. Worman will be responsible for the planning, organizing and controlling of the hook lift, cable hoist and American Eagle accessory product lines from conceptual stages through product life cycles to optimize profit and meet marketing, financial, and corporate growth objectives.

Worman has had over 31 years of experience in the truck equipment industry. His diverse background of engineering, product management, business development and sales leadership within the work truck industry will be of great assistance as he takes on his new role.

Brokk hires central Canada regional sales manager

■ Brokk, a manufacturer of remote controlled demolition machines, hired John-Paul Duquette as regional sales manager for central Canada. Duquette manages sales for Brokk robotic demolition machines and provides support for new and existing customers throughout Ontario, Manitoba and Saskatchewan.

Duquette joins Brokk with 20 years of experience in equipment service, sales and management. He received certification as an automotive and heavy truck technician from Conestoga College before joining Hewitt Material Handling, a comprehensive lift truck dealership. Most recently he spent nine years at Liftow Limited, a lift truck dealership.

New leadership elected for Northeast Recycling Council

■ The board of directors of the Northeast Recycling Council (NERC) has elected a new leadership team.

Kaley Laleker, Maryland Department of the Environment has been re-elected as the president; Robert Isner, Connecticut Department of Energy and Environmental Protection has been elected as vice president; and Rick Watson, Delaware Solid Waste Authority has been re-elected as the treasurer.

Laleker is the director of the Land and Materials Administration at the Maryland Department of the Environment. The Land and Materials Administration includes the Solid Waste, Resource Management, Oil Control, Lead Poisoning Prevention, Mining, Technical Services and Operations, and Land Restoration Programs. Laleker formerly served as the deputy director. She has a J.D. from the University Of Virginia School Of Law. This is Laleker's second term as president of the board.

Isner is the director, Waste Engineering and Enforcement Division at the Connecticut Department of Energy and Environmental Protection (CT DEEP). His responsibilities include management of enforcement, permitting and compliance assistance activities for the recycling, pesticide, solid waste and hazardous waste programs. Prior to joining CT DEEP, Isner worked for over eight years as a municipal land use planner for two municipalities in Connecticut. He holds a Bachelor of Science from UConn and a Master of Science from Central Connecticut State University.

Watson P.E., BCEE, is the chief executive officer of the Delaware Solid Waste Authority (DSWA). He leads the organization which is responsible for managing all municipal solid waste, recycling, household hazardous waste, electronic waste and other special waste programs for the entire State of Delaware. He joined DSWA in 1981 as a project engineer for Delaware's first double lined sanitary landfill. Through the next 37 years he has overseen design, construction, and operation of solid waste projects, including landfills, transfer stations, landfill gas control systems, and various recycling projects. He has a B.S. Degree in Civil & Environmental Engineering from Clarkson University and a M.S. Degree in Civil Engineering from the University of Delaware. This is the third term that Watson will serve as treasurer of NERC.

Republic Services increases quarterly dividend

■ Republic Services, Inc. announced today that its board of directors has approved a \$.03 increase in the company's regular quarterly dividend.

The quarterly dividend of \$0.405 per share will be paid on October 15, 2019, to shareholders of record on October 1, 2019.

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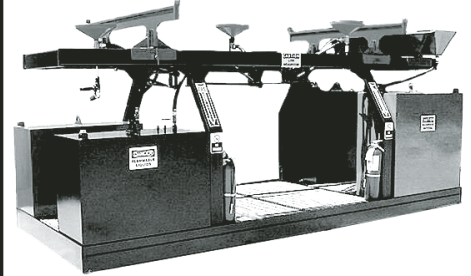
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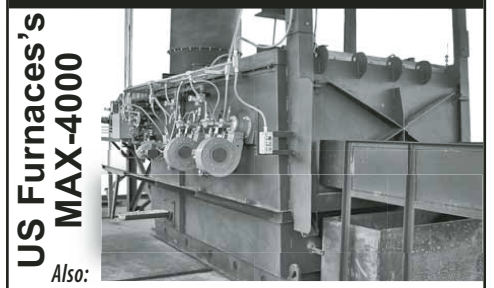


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BUSINESS BRIEFS

DeFife new president of Glass Packaging Institute

■ The Glass Packaging Institute has appointed Scott DeFife as its president.

Most recently DeFife served as vice president of government affairs for the Plastics Industry Association where he worked to advance the organization's new sustainability advocacy work, including upgrading the U.S. domestic recycling infrastructure.

Prior to that, DeFife led federal and state government affairs, as well as communications activity for the National Restaurant Association.

The board of trustees also expressed the organization's gratitude to Joseph Cattaneo, who assisted in the association's executive search and governance over the past 11 months.

I can't believe I got fired from the calendar factory. All I did was take a day off!

Company Wrench begins expansion project

■ Company Wrench has broken ground on a building expansion project at their corporate offices in Carroll, Ohio. The project which began on June 13 will include remodeling part of the existing facility as well as adding 10,000 sq.ft. to the existing building. Over 6,000 sq.ft. of the new addition will be allocated to a larger parts warehouse and 3,924 sq.ft. for office space. The construction is projected to be complete by mid-October of 2019.

Currently, the parts department and parts warehouse are located in a detached building approximately 100 yards from the main offices and service shop. To increase efficiency, the parts warehouse addition will be constructed on the side of the main building, bringing the parts department next to the service department. The old warehouse space and parts department will be repurposed for other purposes.

ASV Holdings enters dealer agreement with Rish

■ ASV Holdings, Inc., a provider of rubber tracked compact track loaders and wheeled skid steer loaders in the compact construction equipment market, has entered into a dealer agreement with Rish Equipment, an equipment distributor with locations in West Virginia, Virginia and Maryland. ASV products will be distributed in each of the company's fourteen locations.

ASV will provide Rish Equipment Company with its full line of compact track loaders, featuring the company's proprietary and unique Posi-Track undercarriage system, which represents the dealer's entrance into this market, joining Komatsu, LeeBoy, Dynapac, NPK, and Sakai, among others, as well-known branded equipment that are offered throughout this dealer network. Rish, founded in 1934, and currently with over 300 employees, has grown to become one of the premiere heavy equipment distributors in the U.S., serving construction, highway construction, paving, mining, landscape construction, forestry, demolition, agriculture, industrial, utility and government markets.

AFC promotes Maurer to operations vice president

■ Automotive Finance Corporation (AFC), a business unit of global vehicle remarketing and technology solutions provider KAR Auction Services Inc., has promoted Kyle Maurer to vice president of operations for the East Division. In this position, Maurer will spearhead all AFC field operations to assure a local-market approach and actualize the "people-first" vision of AFC across customers and employees.

Maurer joined AFC in 2007 as regional manager after four years at Ford Motor Credit Company and nearly five years at Citizens Bank. As senior director of business solutions, he was instrumental in AFC's Salesforce design and implementation, serving as the operations team's business administrator to ensure effective change management and adoption of the CRM tool. He spearheaded the company's transformation efforts with a focus on AFC's most urgent needs, resulting in more efficient processes, greater customer impact, and an improved bottom line.

Timken declares quarterly cash dividend

■ The board of directors of The Timken Company, a leader in engineered bearings and power transmission products, declared a quarterly cash dividend of \$.28 per share. The dividend is payable on September 4, 2019, to shareholders of record as of August 21, 2019.

This marks the 389th consecutive quarterly dividend paid on the common shares of the company since The Timken Company joined the New York Stock Exchange in 1922, one of the longest running dividend records among NYSE-listed companies.

Dr. Heiner Lang appointed to Bosch executive board

■ Dr. Heiner Lang has joined the executive board of Bosch Rexroth AG, Lohr a. Main, Germany. Once on the board, he will take over responsibility for engineering, which currently lies with Rolf Najork, chairman of the executive board of Bosch Rexroth AG and member of the board of management of Robert Bosch GmbH, responsible for the industrial technology business sector.

In his new role, Lang will also be responsible for the three Bosch Rexroth business units which constitute the factory automation division (automation and electrification solutions, assembly technology, linear motion technology). In addition, he will retain his role as general president of the automation and electrification solutions business unit.

Along with his other responsibilities, having Lang appointed to the executive board will strengthen Bosch Rexroth's position in making the Factory of the Future a true reality.

Lang became general president of the automation and electrification solutions business unit at Bosch Rexroth in July 2017. This business unit boasts a wide range of drive and control technologies for factory automation and provides Industry 4.0 solutions for the Factory of the Future. Before this new role, Lang started his career at Bosch Rexroth as the head of technology for the industrial applications business unit in January 2017. Prior to that, he was president of Europe and Asia at MAG IAS GmbH. Heiner Lang studied mechanical engineering and obtained a Ph.D. from the University of Karlsruhe.

EPA appoints McQueen as Region 6 administrator

■ U.S. Environmental Protection Agency (EPA) administrator Andrew Wheeler announced the appointment of Ken McQueen of New Mexico to become regional administrator for Region 6. McQueen will oversee environmental protection efforts in the states of Arkansas, Louisiana, New Mexico, Oklahoma and Texas and in 66 Tribal Nations.

McQueen has extensive experience in public service and industry working in the south central region of the U.S. on water, natural resource and energy issues. McQueen will join the agency having most recently worked as the state of New Mexico Cabinet secretary for the Energy, Minerals and Natural Resources Depart (EMNRD) from 2016 to 2018. During his tenure as cabinet secretary, he worked to streamline rules and regulations.

Prior to serving as New Mexico's EMNRD Cabinet secretary, McQueen worked as vice president of Williams/WPX Energy from 2002 to 2016 where he managed the company's assets in New Mexico, Colorado and Wyoming. During this time he also served as an adjunct professor in petroleum engineering at The University of Tulsa.

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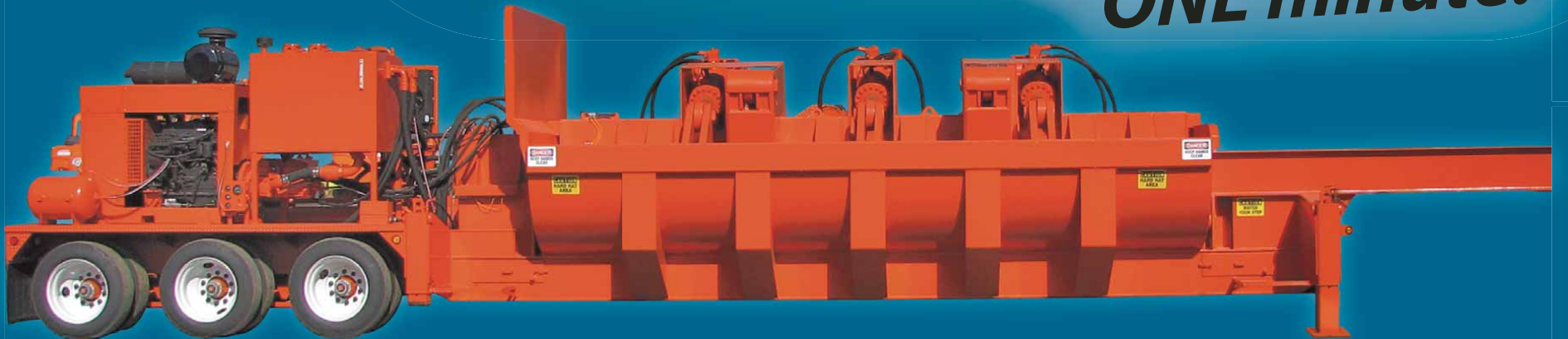


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Cooper Tire takes part in ambassador program

Queenie Edwards Miller, industrial engineer for Cooper Tire's Texarkana manufacturing plant, was one of 11 "Tire Manufacturing Ambassadors" who met with lawmakers on Capitol Hill as part of the third annual advocacy initiative held by the U.S. Tire Manufacturers Association (USTMA). The program brought manufacturing employees to Washington, D.C. to discuss key issues affecting the tire industry and highlight the industry's economic contributions.

Tire Manufacturing Ambassadors and USTMA staff met with representatives from several congressional offices, where Miller shared her role at Cooper and the contributions the company provides to local communities. USTMA Ambassadors also encouraged members of Congress to join the newly formed Congressional Tire Caucus.

Miller was selected to participate for demonstrating outstanding leadership skills, passion and community service. A 2016 graduate of Mississippi State University where she earned a degree in industrial engineering, she joined Cooper in 2017, and in her role, works closely with production managers to ensure Cooper's Texarkana facility is able to meet its tire production goals.

Miller is a member of Cooper's "Dream Team," a group of early-career employees across the nation who serve as ambassadors in their communities to promote manufacturing as an excellent career choice. She has been selected by Tire Review magazine as one of its Club 3633 honorees, which recognizes individuals who are building on the success of those who've come before them and are leaving their own mark on their companies, communities and the tire industry.

Tire recycling market stays strong

by MAURA KELLER

mkeller@americanrecycler.com

As the world's two biggest trading nations – the U.S. and China – continue dueling over imposed tariffs and import/export restrictions, those within the tire recycling industry are continually looking at ways to offset the impact these trade wars are having on the industry. As the Chinese government continues to impose tariffs on scrap tires and rubber, state and local government and other entities are devising incentives to increase the proper disposal or transformation of scrap tires into usable applications. While all eyes have been on the trade wars since mid-2018, the scrap tire initiatives started heating up in the last few years.

According to the U.S. Tire Manufacturers Association, in 1990, only 11 percent of annually generated scrap tires were "consumed in beneficial end use markets." However by 2017, end-use markets consumed 81.4 percent of scrap tires generated in the U.S., in such market categories as tire derived fuel, ground rubber and civil engineering applications. In fact, the Rubber Manufacturer's Association states that the utilization rate for recycled rubber scrap in the U.S. has remained above 80 percent for the past decade, with an increased focus on end products such as asphalt, playground mulch, sports surfaces and other molded rubber products.

State Initiatives

According to Andrew Sobko, chief executive officer of the US Rubber Company in Morocco, Indiana, in 2013, 3,824 thousand tons of tires were generated in the U.S. with newer figures from 2015 showing about 450 million scrap tires generated annually in the U.S.

"Our company will be producing crumb rubber and scrap steel for sale to end users that will use it in manufacturing new products," Sobko said. "The market remains strong and seems to be building momentum as the supply of waste tires increases and uses for new and exciting ways to use crumb rubber grows."



The scope and ingenuity of uses for recycled tires continues to increase thanks in part to the incentivization and awards granted for the conception of innovative ideas. PHOTO COURTESY OF TIRE INDUSTRY ASSOCIATION

To increase the recycling of scrap tires several states in the U.S. are creating grant programs that entice members of the community to embrace tire recycling at its core. In May 2019, the Kentucky Energy and Environment Cabinet announced that up to \$502,838 in grant funding had been awarded to five counties in Kentucky for rubber-modified asphalt projects utilizing crumb rubber manufactured from waste tires.

According to the Kentucky waste management division, the grant funding will be used for the application of chip seal or asphalt overlay on county or metro government roads. "Chip seal is a road surface treatment that combines one or more layers of asphalt with one or more layers of fine aggregate, and can extend the life of a road by four to eight years," the department said. "Asphalt overlay is a new layer of asphalt applied over an existing asphalt surface, and can extend the road life by 7 to 10 years."

The Kentucky Energy and Environment Cabinet awarded \$500,471 in grant funding for surfacing projects that utilize recycled waste tires.

Similarly, California's Department of Resources Recycling and Recovery (CalRecycle) administers various tire grant programs to provide opportunities to divert waste tires from landfill disposal, prevent illegal tire dumping, and promote markets for recycled-content tire products.

Called the Tire Incentive Program, the program provides an incentive payment program to eligible businesses that use recycled crumb rubber in eligible products or substitute crumb rubber for virgin rubber, plastic, or other raw materials in products. In 2017, CalRecycle awarded \$6.6 million in grants to local governments and entities to safely manage and encourage the reuse of California's scrap tires.

Recently Ohio initiated its recycling and litter prevention program surrounding scrap tire grants for projects involving scrap tire manufacturing and processing, including projects involving the use of scrap tire material in drainage systems and backfill application in construction, as well as ground tire rubber or recycled asphalt shingles or the

See TIRE MARKET, Page B7

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TIA names 2019 Hall Of Fame and award honorees

The Tire Industry Association (TIA) has announced the recipients of the 2019 Hall of Fame and Ed Wagner Leadership Awards.

The 2019 Hall of Fame honorees are:

•Brent Hesje, chief executive officer of Fountain Tire Ltd., Edmonton, Canada

•The late Frank Holeman, director of the Tire Industry Safety Council, from 1969-1987.

The 2019 Ed Wagner Leadership Award honoree is:

•Edward A. Burlison Sr., president and owner of Central Marketing Inc., Colonial Heights, Virginia

The Hall of Fame Award is the tire industry's highest honor. It recognizes individuals who have contributed to the growth and development of the tire industry or have demonstrated high standards, ideals and leadership in the management of their businesses and in the tire community and have achieved goals and success that distinguishes them from others.

The Ed Wagner Leadership Award is presented to individuals or companies that demonstrate leadership, or innovation in products and services,

that foster and promote the tire, retreading and/or tire recycling industries.

TIA will recognize the honorees at the Tire Industry Honors awards ceremony on November 4, at Caesars Palace Las Vegas Hotel & Casino. The ceremony is open to all and complimentary tickets may be reserved.

2019 Hall of Fame Honorees

Brent Hesje – chief executive officer, Fountain Tire Ltd.

Hesje joined Fountain Tire Ltd. in 1992 as vice president of marketing and became chief executive officer of the tire dealership in 2005. During his time with the company, Fountain Tire has nearly tripled its number of stores to 160, from 56 in Alberta only, and expanded its marketing territory across Canada from British Columbia to Ontario. Fountain Tire, which is 50 percent owned by Goodyear, has a unique ownership strategy providing a 50/50 ownership of its stores with local business owners. Hesje took this effective and often misunderstood approach across the country, making it one of Canada's most innovative and celebrated business models. Since 1992, Fountain Tire has doubled the number

of retread plants it operates to six and evolved into a vertically integrated comprehensive tire and automotive business by adding mine service, tire wholesale and five distribution centers. Consolidated sales over this period increased nearly nine-fold to \$605.8 million in 2018 from \$67.9 million in 1992, while employment grew to 2,475 from 400. Hesje is active in volunteer work, serving on numerous education, community and corporate boards. He currently is the chair of the Automotive Industries Association of Canada, the country's largest automotive aftermarket nonprofit, is a past board member of the Alberta Motor Vehicle Industry Council and currently serves as an adviser to the Productivity & Innovation Centre of the Northern Alberta Institute of Technology. He previously chaired the Institute's Essential Campaign that raised a record \$123 million and is a past chair of the school's board of governors.

Frank Holeman – director of the Tire Industry Safety Council

Holeman had been Washington bureau chief of the New York Daily News when he joined the Tire Industry Safety Council (TISC) as director in 1969, a post he held until 1987. At the time, TISC was a separate entity, but under the aegis of the then Rubber Manufacturers Association (now called the U.S. Tire Manufacturers Association). At TISC, Holeman was the public voice of safety for tire manufacturers, dealers and distributors. At a time when the tire industry was under attack by safety activists and the subject of frequent negative publicity, Holeman was the pioneer in presenting the public and the federal government the industry's message of dedication to tire manufacturing excellence, quality professional service and the necessity of proper tire care and maintenance. He enjoyed the

complete confidence and admiration of all branches of the tire industry. Holeman was the 1956 president of the National Press Club; a lounge in the press club building in Washington, D.C., is named after him. In addition, a plaque in the press club building states that at the request of then-U.S. Attorney General Robert Kennedy, Holeman brought together Russians, Cubans and Americans to negotiate the end of the Cuban Missile Crisis in 1962. Holeman passed away in 1996.

2019 Ed Wagner Leadership Award Recipient

Edward A. Burlison Sr. – president and owner of Central Marketing Inc.

Burlison began his career in the tire industry while still in high school working at a Goodyear retail tire store in Essex, Maryland. He remained in the retail tire business until 1975 when he opened Tire Associates, a wholesale and retail tire distributor and retreader in Richmond, Virginia. In 1986, Burlison started Central Marketing Inc., focusing initially on rubber sales and casings to retreaders. His experience as a retreader led to his vision of bringing automation to the retread industry. In 1992, he traveled to the Reifen show in Essen, Germany, to seek out companies that could provide automated retread equipment he could bring to the North American market. That visit led to a partnership with Italian companies Matteuzzi S.r.L to supply computerized buffers and automatic builders and later Cima Impianti S.r.L to supply automatic mold cure presses and eventually pre-cure retread systems to the U.S. and Canada. Burlison later expanded his business to provide automated equipment for new tire manufacturing. In addition, Central Marketing has become one of the largest distributors of reconditioned retread equipment in North America.

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Recycled Tire Market Steady With New Applications for Rubber
According to the U.S. Tire Manufacturers Association (USTMA), in 1990 only 11 percent of annually generated scrap tires were consumed in beneficial end use markets. The rest went into stockpiles. But by 2017, approximately 81.4 percent of scrap tires generated in the U.S. were consumed and recycled in such ways as tire derived fuel, ground rubber and civil engineering applications...

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Did you read the most viewed articles from the June edition of American Recycler News?

Buyers Favor Online Auto Parts Marketplaces
As e-commerce trends continue to grow, traditional automotive retailers with brick and mortar entities are taking notice. Automotive recycling companies agree that the online marketplace has had a huge impact on the automotive recycling parts industry...

China's Ban on Plastics and its Effect on the U.S. Economy
Frank Kiloran, director of circular solutions at Rubicon Global said the temporary plastics ban from China has two impacts from Rubicon's point of view...

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Bridgestone Bloomington awarded for plant safety

Bridgestone Americas, Inc. (Bridgestone) announced that its off-the-road (OTR) tire plant in Bloomington, Illinois was recently recertified for continued participation in the Illinois Occupational Safety and Health Administration's (OSHA) Voluntary Protection Program as a Star participant. The program is part of the U.S. Department of Labor's OSHA Voluntary Protection Program (VPP).

"The Star recertification is a testament to the Bloomington teammates' commitment to creating a safe work environment and is a shining example of our core commitment to safety first, always," said Monty Greutman, Bloomington plant manager, Bridgestone Americas. "Achieving this recertification is a testament that, from leadership

to the plant floor, all teammates embrace safety as a core value. Our high level of commitment to safety is a common value among all teammates, so we can provide our customers with high-quality, safe tires."

VPP participants serve as models for other employers, workers, and unions by operating excellent safety and health management programs. VPP participants are recognized for achieving a level of worker protection that goes beyond compliance with government regulations.

Since 1965, the Bloomington plant has produced bias and radial OTR tires for mining and construction applications and, last year, announced a \$12 million investment to expand production of popular tire sizes.

My partner asked me if she could have a little peace and quiet while she cooked dinner last night.

So I took the battery out of the smoke detector.

Volkswagen signs agreement with Tire Stewardship Australia

Volkswagen says it is the first automaker in Australia to join a program aimed at responsibly disposing of used tires that accumulate by the hundreds of thousands annually.

In an agreement signed with Tire Stewardship Australia (TSA), 100 VW dealers nationwide will have used tires disposed of by a TSA accredited collector or recycler.

TSA says Australians discard the equivalent of 56 million tires each year. This adds up to 450,000 tons of material, only 10 percent of which is recycled locally.

Michael Bartsch, managing director-Volkswagen Group Australia, says the brand is the first auto importer to become a TSA contributor.

"Tires are a byproduct of the car sales business, and the necessity to have used tires responsibly disposed of or appropriately recycled is incumbent upon us," Bartsch said in a statement.

"Through TSA most of the major tire brands are financially contributing to ensure the environmental impact of their business is continually diminished."

VW Australia joins Goodyear, Bridgestone, Continental, Pirelli, Michelin, Kumho, Toyo and Yokohama as a TSA member.

"Our intention is to wherever possible deal only with tire manufacturers who are TSA co-signatories," Bartsch said.

TSA has 1,600 accredited retailers, recyclers and collectors that are working together to ensure end-of-life tires are managed in an environmentally sound manner.

The group thus far has committed \$2.8 million to projects that recycle end-of-life tires as feedstock to create products such as crumb for roads, permeable paving in cities and soft tracks for equine and sports stadiums.

TSA says other usages for end-of-life tires and tire-derived products include road surfacing, soft playground surfacing, brake pads, industrial and commercial flooring, explosives in civil engineering and fuels for energy recovery.

It is offering scholarships for research into the long term use of end-of-life tires.

One day the whole state legislature was aboard an official state bus touring a rural area. The driver lost control and crashed into the ditch. A farmer came by, and, finding the politicians lying in the road, buried them. The police arrived on the scene just as he finished tamping the dirt down over the last one.

"So you buried ALL the politicians?" asked the police officer. "Were they all dead?"

The farmer answered, "A couple said they weren't, but we all know how them politicians lie."

Report shows recycled elastomers market future scope, demands and projected industry growths

Market Study Report has launched a report on Recycled Elastomers Market that elucidates an in-depth synopsis of this business vertical over the forecast period. The report is inclusive of the prominent industry drivers and provides an accurate analysis of the key growth trends and market outlook in the years to come in addition to the competitive hierarchy of this sphere.

Recycled elastomers market will surpass \$6 billion by 2025; according to a new research report. Recycled elastomer market is fragmented in nature as many medium and small-scale manufacturers are present across the globe. The key players in the industry are West Coast Rubber Recycling, American Recycling Center, GRP, American Tire Recycling, Emanuel Tire, Klean, Entech, OSHO SA RECYCLING, Green Environment Tires Recycle, Rolex Reclaim, etc.

Substantial development in road construction sector in emerging economies owing to the surge in automotive & transportation industry will subsequently boost the entire recycled elastomer market demand in forecast period as the product is widely used as an asphalt binder or an additive in modified bitumen for the formation of durable roads. Significant FDI inflows in Asia Pacific region coupled with various initiatives taken by the government such as one belt one road plan, rural

GM and Ford recognize best in original equipment

The Goodyear Tire & Rubber Company has been recognized as a top performing global supplier by both The Ford Motor Company and General Motors for achieving the highest levels of excellence in the industry as an original equipment supplier.

Goodyear was honored as a top performing global supplier with Ford's World Excellence Award.

Goodyear was recognized for exceeding expectations as a supplier and achieving the highest levels of excellence in quality, cost, performance and delivery.

Goodyear also received the GM Supplier of the Year award for the second consecutive year during the General Motors 27th annual Supplier of the Year awards.

The General Motors Supplier of the Year award winners were chosen by a global team of GM purchasing, engineering, quality, manufacturing and logistics executives. Winners were selected based on performance criteria in product purchasing, global purchasing and manufacturing services, customer care and aftersales and logistics.

road linking with transport network will further bolster the entire road construction industry. The aforementioned trend is expected to follow in the near future as well and will positively influence the global recycled elastomer market demand in forecast timeframe.

Around 75 percent of the recycled rubber is generated from the scrap tires and currently these tires are widely used as a source of energy in various industries include cement, steel, etc. rather than recycling. This will act as a key hindering factor for the overall recycled elastomer market growth by 2024 due to competition in raw material availability.

Recycled elastomer market is segmented on the basis of raw material, application and region. The raw material segment is bifurcated into SBR, NBR, propylene rubber, chloroprene rubber, natural rubber, polyurethane rubber and others. In terms of revenue, propylene rubber will capture more than a fifth of the entire segment by 2024 due to its excellent chemical resistance features.

The application segment in recycled elastomer market is segregated into medical, agriculture, sports product, playground surfaces, infrastructure, home & garden and others. Among these, playground surfaces will

show the significant growth across the entire segment with a CAGR projection of around 10 percent in coming years. Extensive usage of the product for flooring purpose in playgrounds and parks due to superior abrasion and heat and water-resistant characteristics.

Based on region, North America and Europe will collectively hold more than 30 percent of the entire industry. Significant rise in personal income along with changes in living standards will supplement the sports products and infrastructure sectors. This will further augment the recycled rubber demand in these regions.

Recycled elastomers market research report includes in-depth coverage of the industry with estimates and forecast in terms of volume in thousand units & revenue in USD million from 2014 to 2025, for the following segments:

- Styrene butadiene rubber (SBR)
- Nitrile butadiene rubber (NBR)
- Propylene rubber (EPM, EPDM)
- Chloroprene rubber
- Natural rubber
- Polyurethane rubber
- Others

For a sample of the report, view this article on www.AmericanRecycler.com.

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EQUIPMENT SPOTLIGHT

Tire Recycling Equipment

by MARY M. THORNTON

maryt@americanrecycler.com

Refuse rubber, the most common type being tires, is an especially important material to recycle due to the sheer volume generated annually. Additionally, the material is slow to decompose and can be toxic to the environment.

Eagle International is a manufacturer of tire recycling equipment that cuts, slices, debeads, derims and bales waste tires. Key products in the Eagle line of equipment for smaller operations include: the Sidewall Cutter which removes the sidewalls from car and truck tires; the 3060 baler which compresses and bales whole car and pickup tires; and the TC Gator which cuts tires cleanly so requires no additional cleanup. Overall, Eagle has 16 different machines in its lineup for processing ATV tires through 59/80R63 mining tires.

John Tejkl, sales, explained that their equipment is sold assembled and ready to use with stationary or portable options, along with various power options, including diesel, gas, propane and electric. "Our debeader provides value to shredding operations by removing the tire bead for steel salvage. Also, tires that are debeaded are easier for shredders to handle and reduce wear and tear on shredder components," Tejkl said.

He noted that in the off the road (OTR) market, advancements in pyrolysis and recovered carbon black (RCB) have been significant. The Eagle OTR Downsizing System reduces the size of tires up to 59/80R63 by pulling the bead, slicing the tire in half around the circumference, and cutting the tire into sections. The reduced size makes shredding possible and pyrolysis more efficient. Local laws also affect their industry overall. Depending on local regulations, landfills may require that tires be cut into three to four pieces before accepting stock. The Eagle line of tire cutters, including the TC Gator, Tru-Cut, Tuf-Cut, and Tuf-Cut II, easily process tires from ATV through 29.5 x 25 to 34 ply.

Eagle was established in 1991 with the goal of eliminating tire waste and improving the environment. "Our machines are in repair shops and large mining operations. We strive to be on the cutting edge of ingenuity in developing new equipment that meets customer needs. All machines are built on premises at our headquarters in Nebraska. Our equipment is even found in 27 countries



Eldan Inc.

around the globe and our distributors serve seven countries: Southern Africa, Russia, Kazakhstan, Ukraine, Argentina and Mexico," Tejkl stated.

For more than 20 years, Eldan Super Chopper has manufactured and sold a heavy duty pre-chopper, useful in any recycling process. It can be used for pre-chopping of most materials, e.g., tires – without prior de-beading – as well as cables, electronic and electrical waste, refrigerators, aluminum, municipal solid waste, wind turbine wings (cut-off), plastics and industrial waste. In addition to the traditional hydraulic version, Eldan's Super Chopper is now also available in frequency drive. This new product provides the strength, capacity and function as with the hydraulic version, but will also reduce operating power consumption tremendously.

"We launched the Eldan Super Chopper with frequency drive during the first quarter of 2018 and it has been very well received by customers. We already have five in operation and an additional five which will soon be installed. Customers are located all over the world – Russia, Northern Africa, Ecuador and southern Europe," commented Jan Kjær, manager research & development. "The energy consumption of the Eldan Super Chopper with frequency drive is even lower than we expected. The start up power is less than 10 percent of nominal KW and the average power consumption is reduced by up to 50 to 60 percent." The Chopper is now available with frequency and hydraulic drive, as a single and twin rotor and as a heavy duty version.

Since 1956, Eldan has been a leader in the ongoing technical development of machinery and methods in the recycling of tires, cables and WEEE. Eldan Recycling A/S delivers turnkey systems as well as single machines and offers services ranging from design and fabrication to delivery, installation and after-sales service.

Kinshofer recently introduced the DXS series of hydraulic mobile excavator shears. The attachment series, featuring the DXS-40 and DXS-50 models, is ideal for tire recycling, scrap processing and demolition. Both

See TIRE RECYCLING, Page B5



Eagle International

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New Ohio law prohibits install of unsafe used tires

A new law aimed at protecting unsuspecting consumers from the installation of unsafe used tires took effect in the State of Ohio.

Ohio law already allows law enforcement to ticket motorists who drive on tires exhibiting specific unsafe conditions. However, the new law, which was endorsed by U.S. Tire Manufacturers Association and the Ohio Tire and Automotive Association, adds an additional layer of consumer protections by penalizing retailers that knowingly install unsafe used tires.

The enactment of this law makes Ohio the third state to prohibit the installation of unsafe used tires with specific criteria, including tires with:

- Less than 2/32" tread depth
- Damage exposing the reinforcing plies of the tire, including cuts, cracks, punctures or scrapes
- Damage not repaired to industry standards
- Damage to the inner liner or indication of internal separation, such as bulges or local areas of irregular tread

wear indicating possible tread or belt separation.

Ensuring tires are in safe working order can make a major difference in the performance and safety of a vehicle. Excessively worn tires are more susceptible to punctures and hydroplaning in wet conditions. An easy check of tire tread depth should be done using a tread depth gauge or by inserting an upside down penny into the tread to verify it covers at least a portion of President Lincoln's head.

In addition, tire pressure should be measured using a tire gauge while the tires are cold and the car has not been driven for at least three hours. A vehicle's proper tire pressure is contained in the owner's manual.

Maintaining proper tire pressure, periodically rotating and balancing tires according to the vehicle manufacturer's recommendations (typically every 5,000 to 7,500 miles) and regularly inspecting tires can help prevent irregular and premature tire wear and keep consumer safe, especially during summer travel season.

Tire recycling

■Continued from Page B4

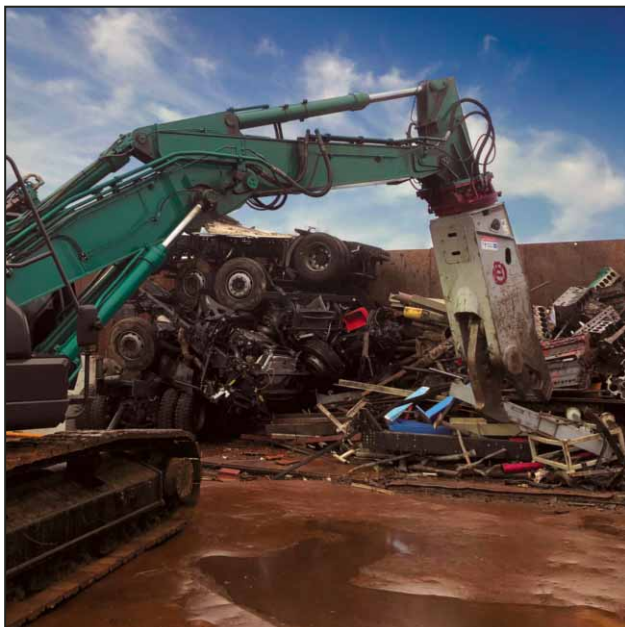
models are also available with the integrated Fuchs Quick Connect System.

"We designed the DXS series to enhance user productivity and ROI," said Francois Martin, Kinshofer North America general manager. "Traditionally, more power means a larger cylinder, which results in a bigger, heavier shear and often, a larger machine. The DXS-50 has the same-sized cylinder as shears in the same weight class, but with 25 percent more power, allowing our customers to achieve higher performance without investing in larger carriers. This saves them money up front while improving their return on investment with the attachment's production-boosting qualities."

Kinshofer's DemaPower 2.0™ cylinder technology gives the DXS-50 the same power as shears two sizes larger. The cylinder uses 4 chambers instead of the 2 found in other shears, resulting in 20 percent more surface area within the cylinder. That allows the DXS series to exert up to 25 percent more power from a smaller attachment, resulting in the best power-to-weight ratio in its size class. The 9,920 lb. DXS-50 features a closing force of 1,203 tons, compared to 922 tons from its 9,020 lb. predecessor, the DRS-45.

Compared to the models from the established DRS Series, the DXS-40 is

marginally heavier than the DRS-30 and has the cutting performance, jaw opening and depth of the DRS-45. The DXS-50 jaw opening is 29.2" wide and 30.7" deep – larger than any other shear in its weight class, as well as some larger models. The shear reduces

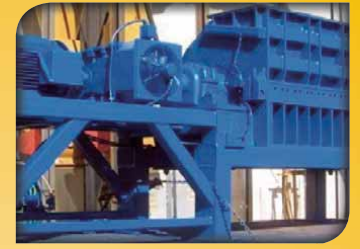


Kinshofer

carrier fuel consumption by up to 20 percent compared to competitive shear models and double-acting speed valves and innovative cylinder technology give the DXS-50 superior jaw closing and opening speeds. The cycle time is as fast as 5.5 seconds, 50 percent faster than any model in the attachment's weight class.

Kinshofer designed the attachment to minimize downtime, with no protruding components that could become damaged. Convenient service openings provide users with fast access to shear hoses and hydraulics. The DXS-50 also features a piercing tip that can be welded again and replaced.

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Bandit Industries is now offering select trommel screens and conveyor stackers manufactured by Pronar including the models 60 GT-HD stacker and the Model 7.24 GT.

The model 60 GT-HD is capable of moving up to 600 tons of material per hour, and able to stack material nearly 40' high, without the need of an additional loader or operator. The stacker can be mounted on tracks.

The model 7.24 GT is a track-mounted or towable trommel screen that has high throughput and is capable of screening a variety of materials, including compost, urban wood waste and biomass.

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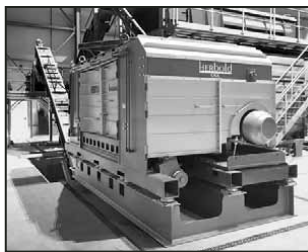
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The new EWS 60/210 from Herbold Meckesheim USA is a single shaft shredder for the pre-shredding of baled, bulky or other hard to process plastics including film, agricultural film, mixed plastics and die drool.

Designed for high volume applications, it features a 23.5" diameter rotor and boasts an impressive 3 ton per hour throughput capacity. Wet or dry shredding capability provides maximum versatility.

To facilitate routine maintenance, the shredder has been designed with easy access to all components including the rotor, waste screen, flywheel, belts and more.

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PITBULL GRIZZLY SCREEN IS AN ECONOMICAL OPTION

Lake Erie Portable Screeners introduces the heavy-duty Pitbull PB678 Static Grizzly. The compact screen is a smaller version of the popular PB148 for added job-site versatility and pairs well with the Pitbull 2300 screening plant, making it an economical option for operations looking for a compact solution to sort over-size material on a reduced scale.

The PB678 Static Grizzly includes features for easy bar removal or adjustments as well as transportability. It is ideal for a wide range of industries, including aggregates, mining, scrap, excavation, demolition, forestry and landscaping.

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RANSOME NOW OFFERS COBRA SCREENING/CRUSHING BUCKET

Ransome Attachments has added the Cobra Screening Bucket to its lineup of multi-functional attachments.

The Cobra can be configured for screening and crushing materials including concrete, rubble, glass, drywall, asphalt millings, rock salt and coal.

The screener-crusher setting is also good for handling wet, sticky, and other difficult soils.

The Cobra can also be adjusted for pure screening, which is ideal for topsoil, compost, mulch, peat and sand. The end product is often used for stockpiling and pipeline backfilling and padding.

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Goodyear looks to space to enhance tire performance

The Goodyear Tire & Rubber Company is reaching for the stars to enhance tire performance by testing components in space as part of a project with the International Space Station (ISS) U.S. National Laboratory.

The SpaceX CRS-18 headed to the ISS in July with a Goodyear experiment onboard. In the microgravity environment of the space station, Goodyear will study the formation of silica particles, a common material used in consumer tires. By gathering knowledge from this evaluation, Goodyear engineers and scientists can determine if unique forms of precipitated silica might be considered in tires to enhance performance.

"Goodyear quite literally has gone to the moon and back to take tire performance to new levels for consumers," said Chris Helsel, Goodyear's chief technology officer. "Space exploration has served as inspiration for so much innovation, and we at Goodyear are proud of our legacy of participation, which continues with this upcoming experiment in microgravity."

In July 1969, Goodyear supplied essential products for the Apollo 11 spacecraft. Goodyear brakes helped the missiles move into place on the launch pads; a Goodyear "purge and conditioning" system helped the engines cir-

culate nitrogen, oxygen and hydrogen; the window frame of the command module was Goodyear-manufactured, as was the panel on which the landing instruments were mounted.

When Apollo 11 splashed down into the ocean upon its return to Earth, the capsule was kept upright by Goodyear-made flotation bags, so the astronauts could crawl into recovery rafts. Later Apollo astronauts used a cart to carry photo equipment, digging tools and 35 bags they filled with lunar rock; and the 16-inch tires on the cart were the result of a development project upon which hundreds of Goodyear associates had worked.

This year, Goodyear's in-space evaluation is being conducted through an agreement with the ISS U.S. National Laboratory, which works in cooperative agreement with NASA to fully utilize the orbiting laboratory with innovative science and technology demonstrations capable of benefiting life on Earth.

Astronauts aboard the ISS will conduct the Goodyear-prepared silica experiment while Goodyear scientists will simultaneously carry out the same experiment in the company's labs, allowing a comparison when the space research results – frozen for the journey back to Earth – are studied later.

Grants available for scrap tire cleanup activities in Michigan

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) has made available grants that promote and support the cleanup and reuse of scrap tires in Michigan.

Scrap tires pose a fire risk and a human health risk as mosquito breeding grounds. Scrap tires can be collected, processed and used for various purposes, including: paving products for roads, manufactured products and energy production.

The Scrap Tire Cleanup Grant is available for property owners to clean up old or abandoned scrap tires. EGLE will give priority to collection sites where tires were accumulated prior to January 1, 1991, as well as collection sites that pose an imminent threat to public health, safety, welfare or the environment. Local units of government and non-profit organizations also are eligible for funding for cleanup days and roadside cleanup grants.

AR EQUIPMENT SPOTLIGHT

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

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UPCOMING TOPICS

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

Garcin elected to USTMA board

The U.S. Tire Manufacturers Association (USTMA) has appointed Alexis Garcin, chairman and president of Michelin North America Inc., to its board of directors.

Garcin joined Michelin in 2002 and has held numerous positions in Europe. He began his Michelin career as sales director of the car dealer channel in France. He then worked in the passenger car division, where he held sales director positions for the European and German markets, prior to being named managing director of Euromaster in Germany. From 2011 to 2017, Garcin served as Michelin's global strategic marketing director for the truck and bus division.

Garcin holds a degree in Economical Sciences from University Lumière in Lyon, France, and a master's degree in Business and Management from Saint-Etienne Business School in France.

USTMA releases industry sustainability report

The U.S. Tire Manufacturers Association (USTMA) released its first U.S. industry sustainability report presenting its members' collective progress and shared vision for a sustainable U.S. tire manufacturing industry.

"Sustainability drives our members' business practices and operating principles," said Anne Forristall Luke, president and chief executive officer of USTMA. "From engineering innovations that maximize tire longevity and performance, to ensuring driver and employee safety, to preserving the environment throughout the life cycle of a tire, our members are continually looking for ways to improve the societal contributions of their products and operations."

Tires are an indispensable part of our mobile society and an essential driver of our nation's commerce. USTMA's 12 member companies operate 56 tire related manufacturing facilities in 17 states and generate over \$27 billion in annual sales and \$11.3 bil-

lion in annual federal tax revenue. Tire manufacturing contributes to the lives of American workers by supporting more than a quarter million U.S. jobs totaling almost \$20 billion in wages.

The report highlights industry accomplishments, including:

- 81 percent of scrap tires went to beneficial end uses in 2017;

- Member facilities have made an almost 10 percent reduction in CO2 emissions since 2010;

- Nearly 90 percent of U.S. member facilities are certified under ISO 14001, the internationally recognized system for managing a facility's environmental footprint;

- 50 percent reduction in injury and illness rates at member facilities since 2005;

- 100 percent of USTMA members support philanthropic activities.

The report also notes areas driving progress, including:

- Advancing safety through innovation in the development of tire tech-

nologies such as run-flat, self-sealing, airless and self-inflating tires.

- The development of sensors, chips and tags that can be embedded in a tire's tread groove, enabling access to real-time information on tire temperature, pressure and tread wear.

- Ongoing research and development to expand the use of sustainable materials in tires, enhancing biodiversity and reducing dependence on non-renewable feedstocks. Several USTMA members are engaged in research on the commercial potential of guayule, a shrub that contains natural rubber, investigating alternative sources of domestic natural rubber from a type of Russian dandelion, and working to produce, test and develop tires with tread made from 100 percent dandelion-derived rubber.

- The implementation of technologies and practices that reduce manufacturing-related emissions, improve energy efficiency, minimize water use and reduce solid waste.

Tire market

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combination of both in new paving initiatives.

Newer End Uses

Crumb or recycled rubber is an important factor to many of Reliance Foundry's customers. The company sells recycled rubber parking stops, wall guards, corner guards, speed humps and speed bumps. "We make a number of infrastructure products, and have found recycled rubber an excellent material for our traffic management lines," said Arwen Brenneman, staff writer at Reliance Foundry.

Thanks in part to the increasing number of states initiating grant programs to incentivize tire recycling, more and more organizations are making environmental sustainability part of their core values and, as such, purchasers are looking to source environmentally conscious products for use throughout their facilities and companies.

"Our products use recycled rubber from old tires that would otherwise be stockpiled, and gives them a second life," Brenneman said. "Not extracting or creating new raw material is very attractive to many companies."

Brenneman added that recycling rubber also just makes sense from a manufacturing perspective. End of life tires produce a useful raw material. Leaving that resource untapped – and in danger of catching fire or causing other environmental issues – does not make sense from either an economic or an environmental standpoint.

Reliance Foundry recognizes that the strength, durability and impact absorption of recycled rubber often supersedes traditional materials. For instance, municipalities and private companies are now turning to rubber parking stops rather than the concrete

standbys gracing parking lots and city streets for decades.

"Traditionally, parking stops are made from concrete – extremely heavy, inflexible, and prone to cracking under impact," Brenneman said. "Recycled rubber parking stops are better at absorbing impact, a property that extends their service life much further than the traditional concrete alternative. The lighter weight also makes them easier and less expensive to install.

Traffic safety supplies made from recycled rubber represent a close repurposing, as old tires become other objects for the road, including speed humps and bumps, parking stops and corner guards.

"The recycled product ends up close to where it started," Brenneman said. "Rubber's elasticity makes it ideal to create safety and ease on the road, whether it is on the vehicles or not." In fact, recycled rubber parking stops are better at absorbing impact, a property that extends their service life much further than the traditional concrete alternative. The lighter weight also makes them easier and less expensive to install.

Brenneman said that it has been more surprising to see these same supplies repurposed as dock bumpers. Corner guards and wall guards, with their florescent stripes and recycled rubber construction, are being used for small watercraft.

"It's the sleeker, more compact version of hanging tires from the side of a dock," Brenneman said.

Future Outlook

The growing supply of waste tires and new uses for crumb rubber is leading the charge among states and municipalities that are eager to solve the age-old scrap tire problem facing their communities.

"As people become more conscious of the environment they realize that reducing the amount of waste

making its way to landfills is as important as recycling in general," Sobko said. "People are becoming increasingly concerned about the environment and the beneficial impact that recycling can have for a number of different waste products. It's not a new trend – it's just building momentum as awareness of the benefits, uses and impact increases."

One of the products the US Rubber Company plans to manufacture using scrap tires is marine fenders that are used in ports. "This is a new idea that has not been widely implemented yet," Sobko said. "We believe the industry will become more vertically integrated as crumb producers also become product manufacturers."

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