



American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

FOCUS: Automotive

Focus is on closed-loop recycling in auto industry



WHAT'S INSIDE

Events Calendar.....	4
Scrap Metals MarketWatch.....	15
New Product Showcase.....	16
Classified Advertisements.....	20
Equipment Spotlight.....	B4
Salvaging Millions.....	B6

- Report provides options for curbside recycling programs. Page A5
- Princess Cruises vessel outfitted with auto gasification as solution to waste disposal. Page A9
- Nucor CEO John Ferriola to retire. Page A15
- GM opens parts center. Page B1

PRSR STD
U.S. Postage
PAID
Columbia, MO
Permit No. 353

10.2019

CHANGE SERVICE REQUESTED

American Recycler

6546 Weatherfield Court, Ste C-2
Maumee, OH 43537

Consolidations alter waste scene

by MAURA KELLER

mkeller@americanrecycler.com

In the world of mergers and acquisitions (M&A), the process is successful when the entities involved not only offer each other complementary services and market, operational and financial strengths, but also have compatible organizational traits that can result in synergy and support the strategic reasons for the merger or acquisition. So what are experts seeing in terms of the M&A activity within the recycling and waste management marketplace?

Simply put. It's active. In fact, even in this unpredictable market, more and more recycling and waste companies are looking to expand their horizons while others are looking for a way out.

For example, in April, Waste Management, Inc. and Advanced Disposal Services, Inc. announced that they entered into a definitive agreement under which a subsidiary of Waste Management will acquire all outstanding shares of Advanced Disposal for \$33.15 per share in cash, representing a total enterprise value of \$4.9 billion when including approximately \$1.9 billion of Advanced Disposal's net debt.

In September, Casella Waste Systems, Inc., a regional vertically integrated solid waste, recycling and resource management services company, announced that it had completed the acquisition of solid waste



Expert opinion says that smaller companies just can't compete when bigger competitors come into the arena.

PHOTO COURTESY OF THE SOLID WASTE ASSOCIATION OF NORTH AMERICA

hauling and transfer assets in Albany, New York and Cheshire, Massachusetts from select subsidiaries of Republic Services, Inc. The acquired assets are expected to generate approximately \$30 million of annualized revenues.

According to Matthew McElhiney partner with Kutak Rock LLP, M&A activity in the waste industry remains strong.

"Consolidation is occurring with the big players acquiring little players, and regional players acquiring or adding to their positions in or near their existing geographies, to either solidify their primary positions in those regions, or to make themselves attractive acquisition targets on their own," said McElhiney, who has a broad range of experience handling corporate, merger & acquisition, business, contract and transactional issues. Early this year, McElhiney handled

a deal in the water treatment and disposal space for an environmental remediation company that performs services including asbestos abatement, structure and infrastructure demolition, soil/water remediation, and consulting/value engineering.

"Waste production in the U.S. per capita, is the highest in the world according to the EPA and others," McElhiney said. At the same time, regulation has become more restrictive, and fewer new waste disposal facilities are being permitted, although we do see alternate avenues for waste disposal, such as waste to energy conversion facilities, increasing – if they can make it through a tough regulatory environment and obtain permitting."

Given that U.S. population is growing slowly, the demand for disposal is growing slowly, but new landfills are not opening up and old facilities are filling up.

"Thus, those players that have several years of space left for disposal in existing facilities are in high demand, and are holding very valuable assets in the current business environment," McElhiney said. "The key here will be who has space to dispose of waste in the future and who holds permits to operate those facilities. These traits are becoming scarce and more valuable assets, at least in today's business environment."

So what are the factors driving the M&A activity within the recycling industry? Dr. Linda Henman, author of *The Merger Mindset* said that increased activity often means the industry is dominated by a large number of privately held small to medium sized companies.

"When bigger competitors come on the scene, the smaller companies can't compete. Also, some of these

See **MERGERS**, Page A4

California passes bill requiring businesses to offer recycling and composting to customers

The California State Legislature passed a bill requiring businesses to make composting and recycling bins accessible to customers at restaurants, malls and other businesses. AB 827 received bi-partisan support in a vote of 30-9 on the Senate floor prior to returning to the Assembly for "concurrence."

Assembly Bill 827 by Assemblymember Kevin McCarty (D-Sacramento) will mandate that businesses that are already required to subscribe to recycling services

under AB 341 (Chesbro, 2011) or composting services under AB 1826 (Chesbro, 2014) offer that access to recycling and composting bins to their customers by July 2020. Under this law, the bins will be clearly marked with educational signage indicating what is acceptable.

"California continues to lead the nation in increasing access to recycling and composting," said Nick Lapis, director of Advocacy for Californians Against Waste, the bill's sponsor. "Giving people an

opportunity to recycle and compost where they live, work and recreate will not only increase the amount diverted from landfills but will also reduce contamination across the recycling system by establishing consistent sorting habits."

Convenience and consistency are critical when establishing and expanding recycling laws. AB 827 will help California meet its short-term climate pollutant reduction goals set forth by SB 1383 (Lara, 2016).

HIGH-SPEED BALER/LOGGER



HEAT & A/C UNIT



3/8 AR400 REPLACEABLE WEAR PLATES

See you at ARA
Booth 726!



- 20' Charge Box
- Heavy-Duty Knuckle Boom
- Superior Lift and Reach



OVERHEAD CONTROLS

“WHAT OUR CUSTOMERS SAY”

We have been using our new overbuilt baler for a little over 2 years now and continue to be impressed. It has been dependable and much more efficient than our balers in the past. This has been a durable machine with little down time other than routine maintenance. We recently replaced the grapple with their new and improved version and couldn't be more pleased. The overbuilt design is simply easy to operate and makes a quality bale that is easy to load. Thank you for making a quality and dependable baler that we can count on and enjoy operating.

—Kevin Stroebel

Manager, Pacific Steel & Recycling
Rock Springs, WY

Operates 5 OverBuilt Balers

We purchased our OverBuilt Car Crusher new in early 2012. This is the best crusher we have ever owned. The Sales and Service Staff have been great to follow up making sure we have all our filter and maintenance items needed to keep our machine running smoothly and efficiently.

—Doug Butler

Owner, Butler Salvage
Torrington, WY

#1 SELLING
CRUSHER!

HIGH-SPEED CAR CRUSHER



- Largest Opening on the Market
- Advanced Oil Recovery System with Sludge Traps and Large Clean-outs
- State-of-the-Art Automation System
- 400-gallon Fuel Cell and Optional Lockable Auxiliary Fuel Pump
- Optional High-speed Oil Bypass System
- 22' & 24' Crusher Chambers Also Available
- Twin Lid Safety Lock System Engaged from the Ground
- Ground-accessible gang grease stations.

★ THE ONLY TRUE HIGH-SPEED SYSTEM AVAILABLE ★



OverBuilt

Huron, South Dakota

800-548-6469
605-352-6469
www.OverBuilt.com
sales@overbuilt.com

View our
USED & NEW

INVENTORY
ON OUR SITE!

SWANA records 30 waste worker fatalities in 2019

The Solid Waste Association of North America (SWANA) has identified at least 30 solid waste worker fatalities in 2019 in the U.S. and Canada. These tragic deaths make it clear that more work remains to be done to improve industry safety.

An average of more than four worker fatalities have occurred each month this year through July 31st. Collection remains the deadliest aspect of the job, with 19 people killed. Of those deaths, 31 percent were single vehicle crashes and 26 percent were the result of a worker being struck by their own vehicle.

Post-collection safety remains a concern as well, with seven on-the-job fatalities at landfills, three at MRFs, and one at a transfer station. Even when not on the road, being struck by another vehicle or heavy equipment was the most common cause of death.

Texas has had the most worker deaths this year, with five as of July 31st. January and June were the worst months, both seeing seven deaths each. The average age of the victim when known was 49 years old.

Fortunately, the solid waste industry is not alone in its fight to eradicate worker fatalities. The 3rd annual OSHA Safe + Sound Week brings together more than 1,800 participants and 220 partners, including SWANA, to help raise awareness about workers' health and safety. SWANA believes every workplace should have a safety and health program that includes management leadership, worker participation, and a systematic approach to finding and fixing hazards.

Solid waste employers can help make real change this year by participating in a local event, developing a safety and health program, engaging with SWANA Chapter Safety Ambassadors, and encouraging employees to take the SWANA Safety Pledge to show their commitment.

A grasshopper walked into a bar.

The bartender said, "Hey, we have a drink named after you!"

The grasshopper looked surprised and asked, "You have a drink named Steve?"

EGLE awards new grants totaling \$1.23M to improve Michigan's recycling infrastructure

State funds will benefit recycling programs, promote environmental stewardship in eight counties

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) announced infrastructure grants totaling \$1.23 million that will improve and expand recycling programs in eight Lower Peninsula counties.

The grants will also support the new Know It Before You Throw It campaign, EGLE's statewide effort to better inform Michiganders of what can – and cannot – be recycled and how to recycle correctly.

EGLE's goal is to grow 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 nation's lowest.

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

The most recent EGLE grants were awarded to:

- City of Bay City (\$40,632) to establish an enhanced single-stream recycling program and open a drop-off collection site for hard-to-recycle items that will serve all of Bay County.

- Branch County Conservation District (\$35,400) to improve recycling collection capacity in the county through a public-private partnership between the Conservation District and the Biz Aid LLC materials recovery facility.

- City of Flint (\$196,000) to enhance the processing capacity of the anaerobic digester facility at its wastewater treatment plant, which is operated through a collaboration with BioWorks Energy LLC.

- Forgotten Harvest (\$19,259) to purchase collection infrastructure that

will improve efficiency at the Oak Park-based food, rescue and distribution center that serves Oakland County and metro Detroit residents.

- Isabella County (\$78,902) to enhance its drop-off recycling program by redesigning and relocating drop-off recycling sites across the county. The aim is to provide longer operating hours and more access to multifamily buildings. The proposed new locations will be in higher-traffic areas that offer greater access to both Isabella County residents and residents in rural areas of bordering counties.

- Cities of Lansing/East Lansing (\$480,000) to help Ingham County's two largest municipalities purchase a recycling collection truck that will address anticipated collection route increases from a new materials recovery facility being built in central Lansing in 2019-2020. The partnership effort is expected to save money while boosting conservation. The new recycling processing center will eliminate each city's need to ship recyclables nearly 100 miles east on I-96 to Wayne County. The project also offers the potential for additional central Michigan communities to make the switch and lower their hauling costs.

- Orion Township (\$239,836) to support the Oakland County community's plan to shift from subscription

based curbside recycling service to single hauler, cart based curbside recycling for all township residents.

- Sanilac County (\$129,836) to expand its recycling collection program by adding storage that will enable staff to accept recyclable materials that are currently not being collected and increase recycling collection locations throughout the county.

- Wayne County Airport Authority (\$10,400) to set up liquid disposal and bottle collection stations at the Detroit Metro Airport North Terminal Transportation Security Administration checkpoints. Passengers may not take liquids through the checkpoints. Each year, 100 tons of waste are disposed from these locations.

The \$1.23 million in grants unveiled are among 26 grants totaling more than \$5.96 million that EGLE is allocating this year that will serve 16 counties covering every region of the state. 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.

NWRA committee elects leaders

The National Waste & Recycling Association's (NWRA) safety committee elected new leadership at its meeting in Ypsilanti, Michigan.

Michael Hughes, corporate director of safety and compliance at Casella Waste Systems was elected chair and Jeff Martin, vice president of safety services at Waste Management was elected vice chairman. Current co-chairs, Jim Olson, senior vice president, safety at Republic Services and Shawn Mandel, vice president – safety and risk at Waste Connections, Inc. will serve as chairmen emeriti.

"NWRA and its member companies are committed to ensuring each employee returns home safely at the end of his or her shift. The Safety Committee helps to establish best practices to keep everyone in the waste and recycling industry safe. We thank Jim and Shane for their service and look forward to working with them in their new role," said NWRA Vice President of Safety and Standards, Kirk Sander.

Hughes and Martin will serve until the next election at Waste Expo in the spring.



GLASS PULVERIZER SYSTEMS

ANDELA Products

Leaders in Glass Recycling Technology

Process all types of glass
Bottles to mixed waste glass

Produce glass aggregate
With rounded edges or glass cullet systems – 1-20 tons per hour

Local processing
for local markets.

AndelaProducts.com
315-858-0055
info@andelaproducts.com

Mergers

■Continued from Page 1

companies that were started by grandparents are now being managed by the third generation,” Henman said. “We often see the third generation losing interest or losing focus. Also, regulatory requirements continue to change. How a city handles recycling, for example, can cause huge ripples in the waste management industry.”

Henman said there are several reasons companies are doing deals in the waste management industry including:

- Businesses are privately owned, and owners want to retire
- The acquiring company wants to grow, and they perceive few other opportunities to expand their current customer base and/or territory
- The acquiring company has expanded the customer base but doesn’t have the equipment or workforce to service them
- Acquiring company wants to improve its reputation in the industry
- They want to attract top talent in management
- They can attract investors more easily
- They believe they will streamline processes and enjoy better financial results
- Operational synergies become possible.
- A combined company can usually compete better in the marketplace

According to Max Bremer, partner with Saul Ewing Arnstein & Lehr, often the factors driving M&A activity in the waste industry are similar to those driving M&A activity in other industries. In particular, the equity markets have remained very positive, which allows the public company players in the waste management and recycling space to use their stock as a somewhat inexpensive and attractive form of acquisition currency.

“The waste management industry is highly fragmented, with many small local operators, which creates an opportunity for growth oriented companies to acquire territory and scale by buying smaller operators,” Bremer said. “There are high barriers to entry in the industry – including the need to obtain the requisite permits, purchase expensive equipment, obtain industry

knowledge and contacts, etc. – which makes acquisitions of existing businesses, rather than starting new and competing operations, an attractive proposition.”

In addition, especially in the recycling and refuse-to-fuel segments of the industry, technological advancements by newer and smaller enterprises are driving a desire by larger players to acquire key technology and broaden their product and service offerings, rather than invest in R&D themselves.

In the case of the waste management industry, the number of mergers and acquisitions reflects an attempt at consolidation and geographic expansion by the major players.

“For example, in its Q1 2019 earnings report, Waste Connections reported acquisitions in seven different states, including three new markets and tuck-ins in existing markets. The consolidation trend continues, including with the recent announcement of Waste Management’s acquisition of Advanced Disposal Services,” Bremer said.

In addition to the consolidation trend and the desire to achieve scale and expand geographic reach, Bremer said buyers are also looking to acquire new technologies, especially in the recycling and refuse-to-fuel space.

“The waste industry also has several characteristics that make it attractive to private equity, including barriers to entry and its resistance to recession – individuals and businesses need waste removal and recycling, whether or not the economy is good,” Bremer said. “With a favorable industry profile, private equity funds will likely continue to pursue opportunities in the waste management industry.”

Bremer and his firm have been involved in several transactions in the waste industry. He said that it is a dynamic sector, with lots of interest from both large strategic acquirers and private equity buyers.

“All this activity makes it an attractive space to be in,” Bremer said. “With recent technological developments, especially in the recycling and refuse-to-fuel space, relatively high fragmentation – which provides an opportunity for consolidation by larger players and favorable debt and equity markets for strategic and financial buyers, we expect the pace of M&A activity in the waste industry to continue.”

Biome Bioplastics primes for growth

Biome Bioplastics announced several key milestones, including a 50 percent increase in revenues for the first half of 2019 following increased sales of existing products, as well as the launch of new bioplastic materials for customers in the U.S. and Europe.

Sensing the opportunity for further significant growth of the Biome Bioplastics business, parent company Biome Technologies plc has also announced that it has conditionally raised £1.3 million by way of a placing on the AIM market of the London Stock Exchange.

These funds will be used for extra resources and to support a number of projects that are planned to scale-up over the next 18 months, as manufacturing is increased in both Europe and the U.S. The funding will also help to deliver higher levels of sales activities and further accelerate the company’s research and development in industrial biotechnology, which is focused on the scaling and commercialization of the next generation of sustainable polymers.

To help capitalize on the new funding and achieve future growth targets, Biome Bioplastics has appointed Sally Morley as its new managing director. Until recently the company’s commercial director, Morley’s promotion will strengthen the Biome Bioplastics’ leadership team and enable other organizational changes, as the business supports heightened levels of activity in both manufacturing and development.

Events Calendar

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.awvswa.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

Call John Monaghan, CPA, CVA for your expert financial advice.

EXPERIENCED IN SOLID WASTE & RECYCLING BUSINESS VALUATIONS

What’s Your Business Worth?



VZN Group, LLC
419-882-1886
www.vzncpa.com

- Accurate Business Valuation
- Financial Forecasting
- Consulting
- Tax Preparation & Planning

John Monaghan, CPA, CVA



NewsVoice of Salvage, Waste and Recycling

877-777-0043 Fax 419-931-0740

Owner, Publisher and Editor

ESTHER G. FOURNIER
news@AmericanRecycler.com

Production and Layout

MARY E. HILL
mary@AmericanRecycler.com

Editorial Focus Section
Production and Layout

LINDSAY FOURNIER
lindsay@AmericanRecycler.com

Marketing Representatives

MARY M. THORNTON
maryt@AmericanRecycler.com

MARY E. HILL
mary@AmericanRecycler.com

Circulation Manager

DONNA L. MCMANUS
donna@AmericanRecycler.com

Writers and Contributors

MAURA KELLER
mkeller@AmericanRecycler.com

RON STURGEON
rons@rdsinvestments.com

MARY M. THORNTON
maryt@AmericanRecycler.com

Production Offices

6546 Weatherfield Court, Ste C-2
Maumee, OH 43537
877-777-0043 fax 419-931-0740
www.AmericanRecycler.com

American Recycler is published 12 times per year, postage paid at Columbia, Missouri.

SUBSCRIPTIONS: Call our offices at 877-777-0043 or visit www.AmericanRecycler.com. US 1 year \$48; 2 years \$72.

© COPYRIGHT 2019 by American Recycler News, Inc. All rights are strictly reserved and reproduction in whole or in part is prohibited without prior written permission from the publisher.

Submission of articles, artwork and all photography must be accompanied by a self-addressed stamped envelope if a return of materials is wanted. Byline contributors’ views should not be construed as representing the opinion of the publisher.

American Recycler reserves the right to edit any and all material submitted for publication. All Letters to the Editor must be signed and include a telephone number for verification. The editor of this publication does not accept responsibility for statements made by advertisers herein.

Report provides options for curbside recycling programs

An important new report issued by the Solid Waste Association of North America's (SWANA) Applied Research Foundation (ARF) provides a number of significant observations and insights regarding the impacts of China's National Sword Policy on curbside recycling programs in the U.S. and Canada and the resets that can be made to address them.

China's National Sword policy banned the import of several recyclable materials from all countries – including mixed paper and mixed plastics – on January 1, 2018 and reduced the acceptable level of contamination in scrap and recyclable materials not banned to 0.5 percent effective March 1, 2018. China also imposed tariffs on many recyclables specifically from the U.S. – including cardboard, other recovered fiber, metals, and plastics – in August 2018.

National Sword has contributed substantially to a 50 percent reduction in the revenues received from the sale of recyclables recovered through curbside recycling. In addition, it has resulted in increased processing costs and residue rates at material recovery facilities (MRFs).

"The China National Sword policy is providing recycling program managers with an opportunity to reevaluate the costs, funding mechanisms and materials targeted by their curbside recycling programs in an effort to make them more sustainable and effective," said Jeremy O'Brien, P.E., SWANA's director of Applied Research.

The report, "Resetting Curbside Recycling Programs in the Wake of China," presents several options that can be implemented to counter the

impacts of China's National Sword policy. One example would be to switch from a weekly to bi-weekly schedule for curbside recyclables collection.

"We expect municipal officials and other key recycling stakeholders will review the important data, conclusions, and recommendations from this ARF report and incorporate them into their recycling programs. Local governments have several options that are

preferable to dropping curbside recycling programs," stated David Biderman, SWANA's executive director and chief executive officer. Biderman added that this fall will be an active one on the recycling policy front, with the November release of EPA's long-awaited national recycling framework and congressional activity on bills that would support recycling programs.

China's National Sword policy underscores the need to address the

high contamination levels of incoming single stream recycling loads that are processed at MRFs. Contamination is costing curbside recycling programs over \$1 billion per year on a national basis when additional collection and processing costs associated with contamination are considered. While contamination has not been caused by National Sword, the need to clean up recyclable streams has been highlighted by the new restrictions.



BUNTING®

Formerly known as **BUNTING**
Magnetics Co.

SAME COMPANY. NEW LOOK.

Increase Product Purity and Increase Profit with Bunting's Stainless Steel Separation Conveyor

Bunting's patented SSSC® Stainless Steel Separation Conveyor™ maximizes your stainless steel recovery and removal in auto shredding and wire chopping streams.

- Recover up to 98% of small and mid-fraction 300 series stainless steel
- Recover up to 94% of large fraction stainless steel from ASR zurik lines.
- Achieve maximum removal of stainless steel and ferrous dust from wire fraction.
- Provides you with the purest zurik, maximizing your scrap metal recovery profitability.



The SSSC provides a level of separation that other equipment simply cannot achieve. Maximize your **product purity and profitability** by integrating the Bunting SSSC into your facility.

Visit www.buntingmagnetics.com for
more information or call 316-284-2020

800.835.2526 / BUNTINGMAGNETICS.COM

GLOBAL. MAGNETIC. FORCE.™

Preferred Warranties Inc. opens markets in four states

Preferred Warranties Inc. (PWI), a business unit of KAR Auction Services Inc., has expanded into the Los Angeles, Minneapolis, Alabama And Mississippi markets with dedicated sales consultants in those locations.

The staffing buildup includes two sales consultants in the Los Angeles market, one in Minneapolis and one covering Alabama and Mississippi. The enlarged sales team follows the recent appointment of Allison Marley as vice president of sales for PWI.

Established in 1992, PWI offers extended service contracts to more than 3,000 independent automotive dealers. With a full menu of service contracts and extensive coverage levels, PWI products drive high levels of confidence, value, and revenue for partner dealers. To supplement product offerings, PWI provides best-in-class service and training to assist dealers with selling these products, which in turn creates value.

Solid waste 2019 Safety Award winners announced

The Solid Waste Association of North America (SWANA) named the 2019 SWANA Safety Award recipients chosen by the SWANA Safety Committee. These awards recognize those who have demonstrated a profound commitment to improving employee safety through communication, best practices, training, and policies. Two organizations are honored this year with the Biggest Safety Improvement Award and the Best Safety Innovation Award.

2019 Safety Award Winners

The Best Safety Innovation Award goes to the City of San Antonio, Solid Waste Management Department for fully implementing a Safety Management System (SMS) that challenged convention, created synergies, and engaged employees at all levels and functions. These efforts reduced accidents by 47 percent and injuries by 50 percent, with a lost work day rate reduction of 28 percent.

“The men and women of the City of San Antonio’s Solid Waste Management Department serve more than 358,000 households weekly and are routinely faced with high risk conditions,” said Walter Barrett, solid waste manager at the city of San Antonio, Solid Waste Management Department. “Through the implementation of a Safety Management System, the department strives to mitigate and eliminate these risks and provide a safer work environment that ensures our employees go home to their families in the same condition as when they arrived at work. Their commitment to safety guided us on the journey to obtaining an ISO 45001 Safety Certification and making San Antonio the first municipality in the world to achieve this accomplishment. Our thanks to SWANA for its role in this challenge and to our entire team whose dedication and innovation propels the continual improvement in achieving a sustained reduction in accidents and injuries.”

The Biggest Safety Improvement Award goes to Lakeshore Recycling Systems (LRS) for continued success in increasing transparency and two-way communication among employees and management, reducing incidents by over 50 percent from the previous year. LRS is headquartered in Morton Grove, Illinois and serves the Chicagoland area with more than 720 full time employees.

“Lakeshore is proud to be recognized by SWANA for our continued dedication to the Live Safety philosophy,” said John Sliwicki, vice president of risk management at Lakeshore Recycling Systems and SWANA Illinois Chapter Safety Ambassador. “This belief is at the heart of our core values and guides our decision making at every level. Our efforts and commitment have finally started to be evidenced in the overall reduction of incidents and claim spend. These metrics provide further support that our culture is blossoming, and we are headed in the right direction.”

SWANA is also recognizing another organization for their innovation and improvement by awarding an honorable mention to City of Casper Regional Landfill in Casper, Wyoming for its merit in both categories.

The winners of the SWANA Safety Awards will be recognized at WASTECON in Phoenix, Arizona.

SWACO awards more than \$13,000 in grants for events

SWACO announced the recipients of its 2019 Event Waste Reduction Grant. This grant helps fund public outreach and education efforts around waste reduction and diversion as well as specific activities that increase reuse, recycling and composting at public events.

SWACO awarded more than \$13,000 to the following five organizations:

- The Community Festival – Com-Fest. SWACO awarded a grant for \$2,381.04 for the purchase of ClearStream recycling signage which will help event goers know what to recycle. The grant will also support the purchase of transport carts to make the use of existing recycling containers easier for event organizers.
- The city of Dublin – Dublin Irish Festival. SWACO awarded \$6,000 in grant funding for the purchase of ClearStream recycling containers and for consulting services provided by Zero Waste Event Productions to implement a sorting station for 10,000 pounds of event-generated waste. The sorting station will help improve the recovery of recyclable materials and food waste.
- Our Lady of Perpetual Help Parish (OLPH) – OLPH Summer Festival. SWACO awarded \$2,000 to help the festival achieve zero waste. SWACO’s support will help with the purchase of feather sails and banners promoting recycling and composting, compost bins and composting hauling services for the festival.
- SEA Change, Inc. – Festival for Good. SWACO awarded a \$2,000 grant for consulting services provided by Zero Waste Event Productions to implement a comprehensive recycling program. The program will include recycling bins, signage and a sorting station for event-generated materials. Information will be collected and used to benchmark and plan for recycling, composting and waste disposal at future events.
- Evans Creative Group – Columbus Coffee Festival. SWACO awarded \$1,022.25 for the purchase of a pop-up tent to house recycling, compost and landfill containers and reusable banners and posters promoting recycling and composting of coffee grounds generated at the festival.

SWACO’s grants program includes the Community Waste Reduction Grant in addition to the Event Waste Reduction Grant. In 2018, SWACO awarded three Event Waste Reduction grants to Franklinton Farms, the 2018 Women’s Final Four and Columbus CoffeeFest.



CELEBRATING
TEN YEARS OF
EXCELLENCE

TELL US THAT YOU SAW US IN AMERICAN RECYCLER



WIRE BOSS GRANULATOR SYSTEM

- Low Cost, High Efficiency
- Modular, Expandable System
- System Contains Pre-Shredder, Conveyor, and Granulator



GRAPPLES

- Orange Peel Grapples Come With or Without Magnet
- HARDOX Steel Built
- Two-Year Warranty



MOLEY MAG 24V MAGNET

- Low Cost
- No Generator Needed
- Easy Install
- Sizes Available From 26" – 48"



TIRE KING XL

- Quickly Deflates Tire and Removes Rim in 20 Seconds
- Processes Steel or Aluminum Rims
- 7 KW Power
- 2,646 lbs.



HYDRAULIC SCRAP MAGNET

- Easy Installation
- Sizes 28"-72" Available
- Complete Enclosed System (Pump, Generator, Control Box)

Moley Magnetics, Inc. | 5202 Commerce Dr. | Lockport, NY 14094 | moleymagneticsinc.com | 1 (844) 662-4638 | sales@moleymagneticsinc.com



NERC releases report covering commodities

NERC has released a first of its kind regional blended MRF commodity value report.

Last year, in partnership with the Northeast Waste Management Officials' Association (NEWMOA), NERC formed a Regional Recycling Markets Development Committee. The committee determined that having regional information about the value of recyclable commodities would be extremely helpful for assessing regional market trends and would serve as an educational tool for promoting improved residential recycling and participation. North Carolina's Department of Environmental Quality has been doing a similar survey for many years. The results have been invaluable to recyclers, MRFs, and also municipalities and state agencies. NERC anticipates the same benefits in our region and expect to conduct the survey, and report results and trends, on a quarterly basis.

Fifteen publically owned or operated MRFs in 10 states (Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont) were surveyed in July 2019 for the period covering April through June, 2019. A report of the blended value of commodities marketed by the MRFs, as well as information about residuals, tipping fees, and relative percentages of materials marketed is now available.

Vecoplan breaks ground on expansion

Vecoplan LLC, a leader in size reduction technologies, broke ground on their latest plant expansion on September 6 in Archdale, North Carolina. Equipped with state of the art machinery, the plant will be committed solely to the manufacture of shred trucks for the secure information destruction industry.

Luke James, Vecoplan LLC sales manager-mobile division, cited increased customer demand as the driving force behind the expansion. "We're going to deliver what our customers have been asking for, by investing in cutting edge equipment and highly skilled personnel. We will double our production capacity and cut lead times to an absolute minimum."

Once completed Vecoplan will have 50,000 sq.ft. of dedicated manu-

facturing space at its U.S. headquarters in Archdale. The new factory will utilize streamlined modular assembly lines that maximize production efficiency, and facilitate future expansions.

During the groundbreaking ceremony, Vecoplan CSO Bob Gilmore welcomed attendees and reiterated Vecoplan's intent to continue leading the market with innovation, quality and rapid response to customer's needs.

Gilmore added, "This facility and the very significant investment further solidifies our ongoing commitment to the information management and secure destruction market. When complete, this expansion will put Vecoplan in a better position to provide quick delivery of the products the market is demanding"



L-R: Luke James, Vecoplan's sales manager-mobile division and Bob Gilmore, Vecoplan's chief sales officer.

Scuderi Clean Energy changes name to ESG

Scuderi Clean Energy changed its name to ESG Clean Energy. As the distributed energy market continues to expand and as the need for clean, environmentally friendly power generation increases, management believed that it was necessary for the name change.

ESG Clean Energy will maintain the same focus on utilizing patented technology to create and distribute energy and at the same time sequestering close to 100 percent of the exhausted carbon dioxide.

Turn your waste into revenue

At CPM Di Più, we're helping our customers turn millions of tons of industrial waste and metal swarf into millions of dollars of new revenue streams—**not to mention saving the planet.**

Whether it's recovering metal and wood waste from industrial production; reducing volume, transport, and storage costs; or simply recycling waste into energy, with CPM Di Più, you get a powerhouse of briquetting technology.

CPM Di Più customers have access to our complete and combined solutions, our world-class equipment, and our enviable aftermarket support.



BRIK

Series

Our Mechanical (MB) machines use low energy and are designed for applications in biomass, plastics, agricultural waste, and more.



METALBRIK

Series

Our Hydraulic (HB) presses are designed for metal waste densification.



For more information, visit cpm.net or call 1-800-428-0846



DI PIÙ SYSTEMS

Your Partner in Productivity

1114 East Wabash Ave. | Crawfordsville, IN 47933 - USA



Manufacturer of tire reduction systems since 1991.



TIRE DERIMMERS

The Eagle Car Tire Derimmer is designed to separate waste rims from waste tires.

The Truck Tire Derimmer separates the rim from the tire of any semi-truck tire. Portable models available.



SIDEWALL CUTTER

The Eagle Sidewall Cutter is designed to remove the side walls of truck and car tires.



TUF-CUT

The Eagle Tuf-Cut adds flexibility to your total tire-cutting system by accepting tires up to 23.5/25, 12 ply.

VIEW OUR FULL LINE OF TIRE-RECYCLING EQUIPMENT AT
WWW.EAGLE-EQUIPMENT.COM
800-755-8473 | EAGLE@BREHMER.COM

YOUR TRUSTED SOURCE



Solutions For Any Application

Whether you need a comprehensive system or single machine solution, Granutech-Saturn Systems has been a leading developer and continuous innovator to the scrap recycling industry for more than 50 years.



Experience Granutech-Saturn difference!

Contact us
877.582.7800
www.granutech.com



AUTOMOTIVE

California enacts law prohibiting installation of unsafe used tires

The U.S. Tire Manufacturers Association (USTMA) applauded Governor Gavin Newsom for signing into law a bill that would prohibit the installation of unsafe used tires in California.

The legislation, A.B. 949, authored by Assemblymember Jose Medina (D-Riverside), prohibits an automotive repair dealer from installing an unsafe used tire, as specified, on a motor vehicle for use on a highway. The law requires automotive repair dealers to inspect used tires to determine whether a tire meets the criteria of an unsafe used tire.

The National Highway Traffic Safety Administration (NHTSA) reports worn out tires are three times more likely to be involved in a crash than tires with sufficient tread depth.

USTMA research shows that nearly 38 million used tires are available for sale nationally each year. The legislation does not ban the installation or sale of all used tires. It targets used tires with specific, well-established, unsafe conditions.

“In a state as large and as focused on transportation as California, highway safety is especially important, and preventing the installation of unsafe used tires is vital to the protection of California motorists,” said Anne Forrestall Luke, USTMA president and chief executive officer.

Tires worn to 1/16th of an inch are considered worn out and are dangerous because they no longer provide sufficient grip on the road, particularly under wet conditions. Tires with damage exposing steel belts or other internal components threaten a tire’s structural integrity. Improperly repaired tires can suffer loss of inflation pressure or have hidden damage that may contribute to tire failure. Tires with bulges indicate possible internal damage that can lead to tread separation.

USTMA also credits the following organizations for the bill’s passage: AAA Northern California, Nevada & Utah; Auto Care Association; Automobile Club of Southern California; Automotive Service Councils of California; California Autobody Association; California Automotive Business Coalition; California Automotive Wholesalers’ Association; California Tire Dealers Association; Independent Automotive Professionals Association and Les Schwab Tire Centers.

■ For more AUTOMOTIVE NEWS, see Page B1



PHOTO BY DENYS KUVAIYEV | DREAMSTIME



EQUIPMENT INTERNATIONAL

40 YEARS OF EXPERIENCE IN THE INDUSTRY

800-472-0453

303-699-7766



FINANCING AVAILABLE



The Right Equipment at Competitive Prices

Our machines pull engines, copper wire, harnesses, aluminum + any extras off your car bodies before you ship.

Used Excavators with NEW Attachments*

*New 2-tine tilting/rotating engine pulling grapples, new hold down clamps that go up/down + open/close.

WASTE

Princess Cruises vessel outfitted with auto gasification as solution to waste disposal

The technology group Wärtsilä will supply and install an auto gasification solution for the Regal Princess, a Princess Cruises vessel. This innovative technology will enable the safe disposal of waste from the ship through a self-fueling thermal decomposition unit, thereby significantly reducing greenhouse gas emissions. It will also lessen the requirement to offload waste at shore facilities. Princess Cruises is a Carnival Corporation & plc brand operating as part of the Holland America Group.

The Wärtsilä supplied gasification unit will replace one of the vessel's onboard incinerators, and will safely dispose of hazardous, contaminated, and dry burnable waste in an environmentally sustainable way. The emissions quality from this system exceed the standards of land based thermal destruction, and treating waste onboard the vessel

rather than offloading in port therefore significantly reduces the environmental impact. Furthermore, since the system recovers energy from the waste heat being produced by the thermal destruction process, additional energy and emission savings will be gained. The auto gasification process will reduce the ship's waste to less than five percent of the original volume, and will produce Bio Char, a sterilized inert material, and synthesis gas, which is recycled within the unit as fuel.

Princess Cruises has made it clear that efficient waste management and reducing emissions are extremely important for the company, and for all Carnival Corporation brands. Wärtsilä's innovative and advanced technologies continue to support this commitment.

Wärtsilä is scheduled to deliver the equipment in January 2020.



Casella Waste secures permit expansion at WasteUSA landfill

Casella Waste Systems, Inc., a regional solid waste, recycling and resource management services company, announced that the State of Vermont Agency of Natural Resources and the Natural Resources Board have issued all necessary permits and approvals for the company to expand its WasteUSA landfill located in Coventry, Vermont. The expansion will increase the lined disposal area by

51.2 acres, or by approximately 13.7 million cubic yards, which will create approximately 20 years of additional airspace at the current run-rate.

The landfill is currently permitted to accept up to 600,000 tons per year of municipal solid waste (MSW).

"We are very excited to receive this important permit expansion at our WasteUSA landfill," said John W. Casella, chairman and chief executive

officer of Casella Waste Systems, Inc. "Over the last 25 years, the WasteUSA landfill has been an important element of our integrated resource management infrastructure in Vermont, which also includes recycling, organics, and collection services. Our investment in this comprehensive infrastructure has helped our customers in Vermont take a balanced approach to sustainability.

And, with this expansion we are well positioned to continue to meet the State's solid waste disposal needs into the future."

New England Waste Services of Vermont, Inc., a wholly owned subsidiary of Casella Waste Systems, Inc., is the owner and operator of the facility.

Kroger reduced waste by 9 percent

The Kroger Co. announced the company's Zero Hunger/Zero Waste efforts reduced its supermarket food waste footprint – the overall food waste it produced – by 9 percent in 2018, creating measurable improvements in its retail operations and more environmentally-conscious associates.

"We know our customers, associates, stakeholders and investors care deeply about people and our planet," said Rodney McMullen, Kroger's chairman and chief executive officer. "The world around us is changing too – a warming climate, global population growth, loss of biodiversity, water scarcity and more. These eco-realities affect our collective ability to feed people today and in the future. They are also the force behind Kroger's Zero Hunger/Zero Waste plan. We know 40 percent of food produced in the U.S. is thrown out, yet 1 in 8 people in our country are food insecure. Redirecting just one-third of the food wasted in the U.S. every year would more than feed those struggling with hunger."

Highlights include:

- Reduced food waste footprint nine percent: Kroger's food waste generated by retail stores decreased nine percent, reducing both food waste and the greenhouse gases resulting from it.

- Improved food waste diversion 13 percent: Kroger achieved a 13 percent improvement in supermarket food waste diverted from landfill, moving from 27 percent diversion to 40 percent in 2018.

- Achieved 2020 electricity savings goal. Kroger supermarkets have saved more than 2 billion kWh, placing the company well ahead of its 40 percent electricity savings goal by 2020.

- Kroger reduced the amount of plastic resin in Our Brands packaging by 9.1 million pounds so far – well on its way to reaching its 10 million pound goal by 2020.

- Commenced installation of solar panels at Paramount Distribution Center – Kroger's 555,000 square-foot facility to be powered by more than 7,000 solar panels, producing 50 percent of electricity for the automated distribution center in Paramount, California.

- Expanded fresh food rescue – Kroger associates rescued 10 percent more food from its stores, plants and distribution centers.

- Supporting communities – Kroger directed more than \$328 million in charitable giving – in food and funds – to its communities in 2018.

Discover the Advantage with **BomacCarts**

www.bomaccarts.com
sales@bomaccarts.com
 262-882-5000

ELECTRONICS

Global-wide ban on exporting hazardous waste to developing countries becomes law

Croatia's September 6th deposit of ratification of the 1995 Basel Ban Amendment has allowed this global waste dumping prohibition to finally enter into the force of international law. The Ban Amendment, adopted by the parties to the Basel Convention in 1995, prohibits the export of hazardous wastes from member states of the European Union, Organization for Economic Cooperation and Development (OECD), and Liechtenstein to all other countries.

With Croatia's ratification, a total of 97 countries have now ratified the ban and most crucially the necessary 3/4 of the parties that were present and

voting in 1995. The agreement will become a new Article in the Convention and will enter into force for the 97 countries after 90 days – December 5, 2019.

"The Basel Ban is very important to the many countries around the world that each day receive hundreds of containers of unwanted hazardous electronic and contaminated household wastes with much of that waste contaminating their environment and harming their population," said Jim Puckett, founder and director of the Basel Action Network (BAN).

Only countries that were parties present at the third meeting of the

Basel Convention that took place in 1995 can be counted for entry into force.

Still noticeably absent from the list of countries having ratified the ban are the United States, Canada, Japan, Australia, New Zealand, South Korea, Russia, India, Brazil, and Mexico. "There can be no excuse for using the developing world as a convenient dumping ground for hazardous wastes, under the guise of recycling," said Puckett. "Once the Basel Ban enters into force, the crime of waste trade should be abundantly clear to those countries and industries now horribly complicit with this e-waste tragedy."

Total Reclaim names Farris as new CEO

Total Reclaim, a recycler of regulated waste materials, has appointed Bobby Farris as chief executive officer.

Farris most recently served as a general manager for TerraCycle and led its division that collects and recycles regulated waste materials such as lighting, batteries and electronics.

Farris brings more than 20 years of executive level experience in the appliance, lightbulb and electronics recycling industry to his role at Total Reclaim, and will utilize his strong background in sales and operations management to continue the company's growth in the industry.

Prior to TerraCycle, Farris served as vice president of business development for JACO Environmental.

INTERNET PERKS

Remember... Our
ADVERTISEMENTS

INCLUDE a unique value—
All ads are also displayed ONLINE!



Call Today:

877-777-0043

Or, to place your ad 24/7, visit
www.AmericanRecycler.com

EGLE awards 14 grants to recycle electronics

The Michigan Department of Environment, Great Lakes and Energy (EGLE) has awarded \$269,540 in grants to 14 applicants during the second round of the Rural Electronics Recycling Grants.

The grants will fund 18 community electronics drop-off locations and multiple community collection events in rural communities across the state.

Grant recipients and proposed uses include:

- Superior Watershed Partnership – Alger County: Supports the purchase of storage buildings for two permanent collection locations and multiple electronics collection events in Munising and surrounding communities.

- Schoolcraft Conservation District: Supports the establishment of permanent electronics collection locations in Manistique and at the Hiawatha Shores Landfill; and community education and a series of electronics community collection events in 2020 and 2021.

- Bay Mills Indian Community: Supports the establishment of a permanent collection location in Brimley.

- Keweenaw Bay Indian Community: Allows for physical upgrades to the solid waste facility to accommodate the collection of electronics.

- Northeast Michigan Council of Governments (NEMCOG): Supports establishment of six secure storage locations within the counties that NEMCOG serves; allows the upgrade of one facility to support year-around collection activities; allows repurchase of on-site handling equipment; supports multiple electronics collection events; and expands education and outreach.

- Iron Baraga Conservation District: Supports the establishment of

a permanent collection site and an electronics collection event.

- Mackinac Island Department of Public Works: Supports the establishment of a collection location and the recycling of electronics from the island.

- Antrim County Conservation District: Supports the establishment of a permanent collection location.

- Comprenew-Otsego County: Supports the establishment of two permanent collection locations in the county, e-waste events, and the purchase of storage containers to more efficiently service collection locations in the Northern Lower Peninsula.

- Isabella County Conservation District: Establishes a permanent drop off site for the county and supports e-waste events prior to creating a drop off location.

- Montcalm County Conservation District: Establishes a permanent electronics collection site in the county, e-waste collection events in remote parts of the county, and increased education and outreach.

- Shiawassee County Conservation District: Establishes two collection locations in Shiawassee County; expands the recycling education and outreach program; and helps to control collection costs for the residents.

- City of Bay City: Supports the establishment of a permanent drop off site at the transfer station and allows for e-waste events in rural areas of the county using collection trailers.

- Goodwill Southeast Michigan: Establishes six permanent collection sites in Lenawee and surrounding counties and supports the purchase of a box truck to transport electronics from Goodwill retail locations to a consolidation location.

E-Z CRUSHER DEAL

- **2 Year Warranty**
- **Remote Automation**
- **Hydraulic Outriggers**
- **Air Compressor**



PRICED WITH A TIER 3 DIESEL POWER PLANT

\$165,000 LIST
PRICE

-10,000 OFF THE
2018 MODEL

\$155,000

With only a \$10,000 ORDER DEPOSIT
(which is 5x lower than competitor's deposit!)
or with approved financing
from DADECapital.com!



R.M. Johnson Co. • Annandale, Minnesota

800-328-3613 | 320-274-3594 | Fax: 320-274-3859
EZCrusher.com | davev@ezcrusher.com

See all equipment at www.DADEAuctions.com!



MOSLEY 330T SHEAR

Good working condition. Maintenance records available.



SIERRA 500T STATIONARY SHEAR

Rebuilt cylinders. New knives.



2015 WENDT TROMMEL

In very good condition!



2014 100 x 72 EIDAL ROTARY SHEAR

(2) 150 HP motors. Very good condition.



1999 AL-JON IMPACT V CAR CRUSHER

Very low hours. Ready to work!



2011 CM LIBERATOR 2R

Rebuilt and ready to run. The best machine for wire separation and wire free rubber material.



SHRED-TECH ST100 TIRE SHREDDER

(2) 50 HP motors. New shafts and bearings.



1997 MAGNATECH 66X60 SHREDDER

Includes conveyance & ECS.



2011 SIERRA 656 SLB SHEAR BALER

Rebuilt main cylinder and control panel.



2012 AL-JON 580CL BALER

Only 1,800 hours on the engine!



GLOUCESTER GRANULATOR MODEL G1842-5K

48" rotor, 100 HP motor.



CUMBERLAND MODEL 30 TIRE GRANULATOR

Recently rebuilt, 100 hp.



CP200 CAN FLATTENER

Recently rebuilt!



2006 MAC 5200 BALER

16" x 16" x variable bale size.



AL-JON/UNITED F-466 ALUMINUM FURNACE

Mid-1980s aluminum smelter.

Financing available at DADECapital.com

Sell YOUR equipment with us, call today: 844-222-2020



COMPLETE ELECTRONICS SHREDDING LINE
Everything you need to start processing electronics!



2015 WENDT TOMRA X-TRACT
Dismantled and ready to ship!



2011 INTERNATIONAL WITH DOCUMENT SHREDDER
2008 Vecoplan shredder.



SIEMENS 1500 HP SHREDDER MOTOR
900 rpm, 3-phase, 4,000 volt.



2006 AL-JON 580CL AUTO LOGGER
Needs some TLC.



BARCLAY 6" CLASSIFIER
Good condition. Daisy wheel tire shred classifier.



WENDT TUMBLEBACK FEEDER
28' high. Excellent condition!



MAGNATECH 72 X 72 SHREDDER
Includes UMO, cyclone, bag house and spare parts!



CLEMENT HIGH-SIDE END DUMP TRAILER
Has passed recent DOT inspections!



WOLVERINE TIRE DEBADER
Light truck and passenger tires.



2015 WENDT NON-FERROUS SYSTEM
Excellent condition. Ready to ship!



RUBBER MULCH PAINT LINE
Dual drum batch painting line.



WILLIAMS 60 X 90 HAMMERMILL SHREDDER
Tons of spare parts and conveyance!

DADE
Auctions

844-222-2020

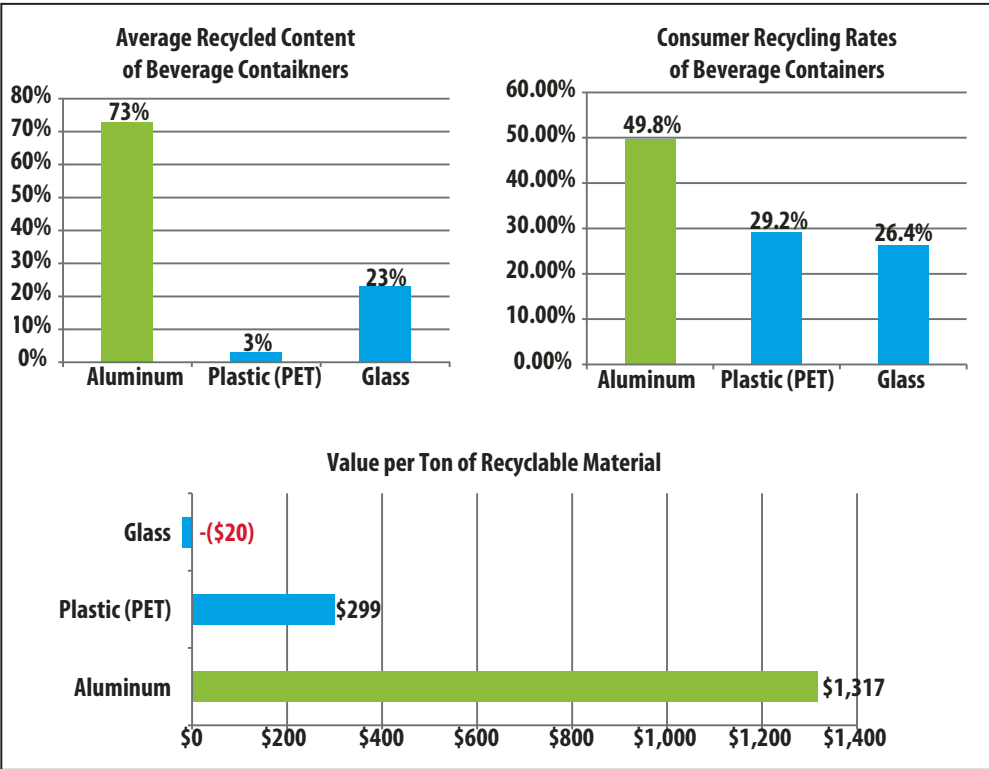
www.DADEAuctions.com

METALS

Aluminum cans remain most sustainable packaging

A newly released report by the Aluminum Association and the Can Manufacturers Institute (CMI) shows that aluminum cans continue to outperform competitive packaging types on a number of key sustainability metrics. The new report – “The Aluminum Can Advantage: Key Sustainability Performance Indicators 2019” – finds that consumers recycle aluminum cans at nearly double the rate of glass or plastic bottles and that average recycled content for an aluminum can produced in the U.S. rose from 70 to 73 percent, compared to 23 percent for glass and 3 percent for plastic. In addition, the report found that the aluminum can scrap is dramatically more valuable than glass or plastic in the recycling bin. Because of this, aluminum effectively subsidizes the recycling of less valuable material in the recycling stream. “Can manufacturers take great pride in providing the most sustainable package in the world,” said Robert Budway, president & chief executive officer of CMI. “When consumers have finished enjoying their favorite beverages in aluminum cans, they should go the extra mile to recycle aluminum cans. Cans are the backbone of our country’s recycling system, and every can properly recycled makes a significant, positive impact in saving resources for future generations.”

The new study tracks a number of different sustainability key perform-



ance indicators for the aluminum beverage can including industry recycling rate, consumer recycling rate, recycled content and value of material. Taken together, these indicators provide a holistic view of the sustainability performance of the can as a guide for consumers, customers, non-governmental organizations, policymakers and other stakeholders across the value chain.

Key findings in the 2019 report include:

- The industry recycling rate, which factors in used beverage container (UBC) imports and exports, remained basically steady in 2017 and 2018 at 63.3 and 63.6 percent, respectively. This exceeds the 20 year average industry recycling rate of 59.1 percent and is an indicator of the industry’s commitment to using recycled material in aluminum can production.
- The consumer recycling rate for aluminum beverage cans jumped

nearly 5 points to 49.8 percent in 2018 from 45.1 percent in 2017. The 20 year average for the aluminum can recycling rate is 50.1 percent.

•The average recycled content of an aluminum can (last updated in 2014) rose from 70 to 73 percent, far exceeding rival packaging types such as glass and plastic.

•The aluminum can remains by far the most valuable package in the recycling bin, with a value per ton of \$1,317/ton compared to \$299/ton for plastic and a negative value of \$20/ton for glass.

“For every 5 percent increase in consumer recycling of aluminum, approximately \$100 million in aluminum value is saved from landfills,” Budway added. “It is no exaggeration to say that the modern recycling system could not work economically without the contributions of aluminum.”

Multiple independent studies have concluded that aluminum is the only beverage container type in the recycling bin that generates a net profit for municipal recycling programs. For example, a study of the “Blue Box” curbside program in Ontario, Canada, showed that aluminum cans brought in \$290 per ton of material collected in 2018 (after costs) while glass and plastic cost the system money. Similarly, according to CalRecycle data, aluminum cans generate \$831 per ton

See ALUMINUM CANS, Page A15

BUYERS
OF
RECYCLABLE
FUELS

The Lamb Fuels Solution
Recover - Recycle - Increase Revenues

GASOLINE

DIESEL

JET FUEL

AVGAS

TRANSMIX

Visit us
at
ARA
booth
#516!

Call Today
for Information and a Quote!

855-218-3013
Info@lambfuels.com
www.lambfuels.com

LAMB FUELS
Since INCORPORATED 1985

METAL RECYCLERS

Raise Profits!

INVEST IN A
QUALITY-BUILT SWEAT FURNACE

With a US Furnace's MAX-4000 Hi Efficiency Sweat Furnace, get the lowest fuel cost per lb to process than any other furnace manufacturer — GUARANTEED!

The lowest melt loss rate than any other manufacturer — GUARANTEED! On-site installation, training & service.

FULL EPA compliance GUARANTEED.

Recycling Services International
518-424-1168
www.RecyclingFurnaces.com

Permit assistance available • Large hearth opening for automotive scrap

METALS

USW members ratify new 4-year contract with Alcoa

Members of the United Steelworkers (USW) voted to ratify a new four-year master agreement that covers about 1,600 production and maintenance workers at five Alcoa facilities in the U.S.

The contract includes annual wage increases of more than 12 percent over the term of the agreement and maintains high-quality, affordable health care coverage. The contract covers USW Local 104 at Alcoa's Warrick, Indiana, facility; Local 420A at Massena, New York; Local 5073 at Gum Springs, Arkansas; Local 4370 at Point Comfort, Texas; and Local 310A in Wenatchee, Washington.

"This is a challenging time for these workers, with unfair trade and declining prices taking their toll on the U.S. aluminum industry," said USW International President Thomas M. Conway. "Thanks to their strength and solidarity, they were able to achieve a fair agreement, one that makes sure they can continue to care for their families and also positions the company for future success."

Bargaining stretched past the previous contract's expiration date in May. As talks continued, workers voted to authorize the USW bargaining committee to call a strike if necessary, while they stayed on the job under the terms and conditions of the expired collective bargaining agreement.

The new contract, which runs through May 15, 2023, is the first since Alcoa split into two companies in November 2016. Alcoa, which dates to 1888, retained its smelting and refining operations while spinning off a downstream products division now known as Arconic.

U.S. proposes new duties on structural steel imports

The U.S. Commerce Department has set tentative anti-dumping duties of up to 141.3 percent on fabricated structural steel from China and up to 30.6 percent on the same products from Mexico, ruling that producers in those countries were dumping product and undercutting domestic prices.

In a preliminary ruling issued in September, the Department also found that Canadian imports had not violated anti-dumping rules. The case arose on a complaint from the American Institute of Steel Construction.

Final determinations are due early next year.

Nucor CEO John Ferriola to retire

Nucor Corp. chairman and chief executive officer John Ferriola will retire at the end of this year and will be succeeded by executive vice president Leon J. Topalian.

Ferriola has been with Nucor for more than 28 years, having joined the company in 1991 as the maintenance and engineering manager at Nucor Steel-Texas. He later served as general manager of Vulcraft-Texas, Nucor Steel-Nebraska and Nucor Steel-Indiana.

He was named a vice president in 1996 and an executive vice president in 2002. In 2007, he was promoted as chief operating officer of steelmaking operations and was later appointed president and chief operating officer. He has served as the chief executive officer since 2013.

Topalian joined Nucor in 1996 and has led company facilities in Arkansas and Illinois as general manager. He was named a vice president in 2013 and became an executive vice president in 2017. As an executive vice president, he mostly recently oversaw Nucor's beam and plate products operations.

Through the transition, Topalian will serve as president and chief operating officer. He'll take on his duties as chief executive officer on January 1, 2020.

Aluminum cans

Continued from Page 14

collected in California's bottle deposit system (after costs) while plastic and glass cost the system \$253 and \$120 respectively per ton of material collected.

"The economic logic is simple – the more aluminum we can return back to the recycling stream, the healthier the overall system," Wilk said.

Each year in the U.S. roughly 45 billion cans – more than \$800 million worth of aluminum – end up in landfills, the equivalent of eleven 12-packs of cans for every person in the U.S. The aluminum can industry supports efforts to increase recycling through public education, advocacy for public policy to increase the quantity and quality of recovered aluminum and engagement with groups, including the Recycling Partnership, a multi-material nonprofit working with local municipalities to measurably improve residential curbside recycling programs and infrastructure.

For more information and to view the full report, view this article on www.AmericanRecycler.com.

Platts: Additional U.S. mill outages planned through end of 2019

U.S. sheet mill outage plans are piling up through the remainder of the year, totaling at least 100 days of cuts among various mills, according to S&P Global Platts analysis.

Most major U.S. flat-rolled steel producers have some sort of scheduled maintenance planned through the remainder of the year with nearly two-thirds of the outages expected in October. The total rated capacity to be removed from the market will be between 630,000 st and 701,000 st. Capacity levels are based on the Association for Iron and Steel Technology data and industry estimates.

AK Steel Dearborn in Michigan is set to undergo an outage in October which is "expected to be less than 20 days," according to a spokeswoman for the company. If the outage for a blast furnace reline goes a full 20 days it would remove an estimated 180,000 st of rated production.

ArcelorMittal USA also has downtime planned at its Burns Harbor, Indiana mill equating to nearly 150,000 st over a 20 day period, as well as over 40,000 st down over a 10 day period at its sheet mill in Cleveland. The company could not be reached for comment.

Nucor and Steel Dynamics have two outages slated for October. Nucor's Hickman, Arkansas mill is set to go down for 10 days, which equates to 82,000 st of melt capacity, while SDI's Butler, Indiana mill will be down for four days equating to 32,000 st, according to market sources.

SDI and North Star Bluescope are set to take downtime in November. SDI's Columbus, Mississippi outage is scheduled for four days totaling 36,800 st of rated capacity while North Star's Delta, Ohio mill will be out for five days totaling 30,000 st.

Nucor will reportedly have two more outages in December. Nucor Galatin in Kentucky is slated to go down for 10 days in early December, removing 43,000 st from the market, while Nucor Decatur (Alabama) is planned to be down for a week removing 48,000 st.

Nucor has scheduled downtime at its Crawfordsville, Indiana mill but the timing is uncertain. The outage was initially scheduled to begin in early September but there were indications it had been pushed into the fourth quarter. It was slated to be down for 14 days which totals 91,000 st of total melt.

AR

Scrap Metals

MarketWatch

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$271.00	264.00	292.00	287.00	290.00
#1 Bundles	per gross ton	265.00	249.00	285.00	279.00	280.00
Plate and Structural	per gross ton	259.00	235.00	248.00	273.00	265.00
#1 & 2 Mixed Steel	per gross ton	198.00	220.00	219.00	234.00	251.00
Shredder Bundles (tin)	per gross ton	129.00	135.00	147.00	148.00	149.00
Crushed Auto Bodies	per gross ton	129.00	135.00	147.00	148.00	149.00
Steel Turnings	per gross ton	83.00	85.00	94.00	149.00	132.00
#1 Copper	per pound	2.33	2.32	2.39	2.29	2.25
#2 Copper	per pound	2.15	2.14	2.24	2.14	2.09
Aluminum Cans	per pound	0.59	0.58	0.50	0.51	0.48
Auto Radiators	per pound	1.42	1.39	1.40	1.54	1.52
Aluminum Core Radiators	per pound	0.59	0.49	0.40	0.41	0.39
Heater Cores	per pound	1.05	1.09	1.05	1.08	1.10
Stainless Steel	per pound	0.52	0.53	0.49	0.48	0.54

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

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

NEW PRODUCT SHOWCASE



Atlas Copco
3700 East 68th Avenue
Commerce City, CO 80022
800-732-6762
www.atlascopco.us

ATLAS COPCO'S LAUNCHES NEW SMART AIR XC4004 CONTROLLER

Atlas Copco Power Technique North America is set to launch the new Smart Air Xc4004 controller on all of its large air compressors and boosters with flows up to 4,500 CFM and pressures up to 5,000 PSI.

The controller features a 7" display that is anti-glare, freeze-free and IP67 rated, providing the necessary protection from water, dust and dirt contamination.

A secondary point-of-use controller unit is also available and provides users with the option to remotely operate their portable compressors, for instance in drilling applications.



Brokk Inc.
1144 Village Way
Monroe, WA 98272
800-621-7856
www.brokkinc.com

BROKK RELEASES ECO-FRIENDLY DIESEL DEMOLITION ROBOT

Brokk, a manufacturer of remote-controlled demolition machines, welcomes the Brokk 520D to its product line. Meeting both Tier 4 Final and European's Stage IV emission standards, the new machine is the most eco-friendly diesel demolition robot on the market.

The Brokk 520D, like the other next generation models, features Brokk's new SmartConcept™ system, including SmartDesign which extends machine life and provides easy maintenance due to 70 percent fewer cables as well as hardened components, LED headlights and easily accessible grease points and hydraulic hoses.



Doosan Infracore, LLC.
2905 Shawnee Industrial
Suwanee, GA 30024
678-714-6000
www.doosanequipment.com

DOOSAN CRAWLER EXCAVATOR MEETS TRANSPORTATION LIMITS

Doosan Infracore North America, LLC, is expanding its crawler excavator lineup with the new DX170LC-5 excavator. The 17-metric-ton model falls below the 80,000 gross vehicle weight rating limit for simplified and less expensive transportation.

This new excavator size allows for easier transportation, especially for small to mid size contractors who perform light excavation projects, such as digging residential basements or commercial building footings. This model reduces the need to obtain a special transport permit when moving to and from job-sites.



Industrial Magnetics
1385 M75 South
Boyne City, MI 49712
888-582-0821
www.magnetics.com

INDUSTRIAL MAGNETICS INC. DESIGNS NEW SEPARATOR

Industrial Magnetics, Inc. designed a dual-drum magnetic separator to meet the high purity level demands of a customer's mixed-metals processing application.

The new magnetic separator is capable of removing ferrous metal contaminants from a conveyed product stream of nonferrous metals, such as aluminum and titanium, which could then be resold as raw materials for further processing. It is essential when a high purity outcome is needed to capture the maximum selling price at market.



ShearCore
155 Main Street
Superior, WI 54880
715-395-3715
www.shearcore.com

SHEARCORE UNVEILS FORTRESS FS145 MOBILE SHEAR

ShearCore has introduced the FS145 Mobile Shear, the largest in their product line for the demolition and scrap recycling industries. The FS145 shear has a new tip design to handle the massive force the shear delivers. A new 'shark fin' rear lug design transfers stress in an improved method over any previous design, which allows higher forces to be distributed over greater mass.

The FS145R, rotating shear model, has a shear weight of 28,000 pounds with a jaw opening of 46" and jaw depth of 47", along with a reach of 14' 9". The minimum excavator boom mount is 145,000 lbs. with a minimum excavator stick mount of 250,000 lbs.

Regulatory Position Statement for waste wood extended

The Environmental Agency (EA) has extended a Regulatory Position Statement (RPS) on the use of mixed waste wood for 10 months. The Waste Wood Classification (WWC) Project is being led by the Wood Recyclers' Association (WRA) and aims to ensure that waste wood in the UK is being properly classified at the front end of the recycling chain and processed for the appropriate end uses.

Julia Turner, executive director of the WRA, said, "We're really pleased with this extension. It not only allows us more time to provide the greatest amount of evidence we can, but also allows us time to prepare thorough guidance for both the waste wood industry and the demolition sector."

The WWC project began in the 2017 with the EA issuing the RPS at that point, stating that mixed waste wood must only be used for panel board feed-stock or biomass destined for boilers, while the project work is carried out.

This extension will also allow time to embed any required changes to waste wood classification within the industry and with the regulators ahead of the RPS being withdrawn next July

The RPS was further extended by 12 months last September. As the sampling work is still on-going, the EA has now agreed a further extension to July 31, 2020.

The project is over halfway through processing samples from Household Waste Recycling Centres, waste transfer stations and waste wood processors.

"The sampling work has taken slightly longer than expected, partly because we have had to wait for enough fence posts and decking to be available," said Julia. "This extension will also allow us to finish the sampling and give us plenty of time to embed any required changes to waste wood classification within our industry and with the regulators ahead of the RPS being withdrawn next July."

Once the results of the sampling are known, the project team will develop two sets of guidance for operators, one by the WRA for the waste wood industry and one produced by the National Federation of Demolition Contractors for the demolition sector.

The guidance will include a 'simple to follow' visual guide on how to classify each waste wood item on whether it is clean and untreated, treated but non-hazardous or treated and hazardous.

This will enable all those involved in the collection, transfer and treatment of waste wood to easily identify every kind of waste wood item that may enter the waste stream from household, industrial, agricultural and construction & demolition sources by using clear pictorial references.

Ecomaine announces deadline for \$25,000 in grants to promote recycling, compost

Ecomaine announced its call for proposals for the organization's 2019-2020 round of School Recycling Grants, which are designed to raise recycling awareness in schools and communities, and to help schools implement more efficient recycling programs or add composting to their waste collection.

Any school from ecomaine's 70+ member communities can apply for Recycling Grants through October 25, 2019.

"Ecomaine's Recycling Grants program is increasingly important," said Kevin Roche, ecomaine's chief executive officer. "It's a big part of our educational outreach portfolio, and it allows students and teachers to work together on some ingenious ways to tackle schools' unique waste challenges."

Past grant proposals have ranged from purchasing in-school recycling bins or education materials to offsetting

compost hauling fees, assisting schools to participate in tours of ecomaine, or purchasing electric hand driers to reduce paper towel waste. If selected, school recipients can receive up to \$5,000 of \$25,000 in available grant funds for the 2019-2020 school year. Recipients are chosen based on the following criteria:

- Project outline and school commitment.
- Ease of project replication.
- Likelihood of success and program sustainability.
- How compelling and worthy the funding is.

Proposals will be reviewed by ecomaine's Outreach & Recycling Committee, and winners will be notified by December.

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

Moving soon?

To ensure you continue receiving your copy of American Recycler, please notify us as soon as you have your new address!

Send changes to Circulation, American Recycler News, 6546 Weatherfield Court C-2, Maumee, OH 43551 or call us at 877-777-0043.



GET OUT THERE



AND GRIND.

Precision Husky Corporation leads the forest products industry, building the highest quality, most rugged equipment available since 1964.

Our horizontal grinders are the most powerful, easiest to use grinders in the industry. They are designed with innovative features and

advanced technologies to give you the power and production needed to tackle the most demanding grinding operations.

You can invest in our equipment with confidence, and know it will do the job for many years to come. Call us today to discuss your needs and learn more about our high-performance products.

ProGrind Horizontal Grinders

- Dual Shear Protection for Hammermill
- Remote Control
- Magnetic Head Pulley for Metal Separation
- Steel Infeed Belt
- Self-Adjusting Hydraulic Clutch
- Fold Down Infeed Tailgate for Increased Bed Length and Closes for "Hopper" Style Feeding
- Enclosed Engine Cover with Dual Access Doors for Ease of Maintenance



ENGINEERED FOR PERFORMANCE. BUILT FOR ENDURANCE.



P.O. Drawer 507, Leeds, AL 35094 • 205-640-5181 • www.precisionhusky.com • sales@precisionhusky.com

PLASTICS

Domestic purchasing of rigid plastics and film continues to increase

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 U.S. 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.

ACC's Plastics Division tracks recycling collection annually in three categories: film, rigids, and bottles. Statistics on plastic bottle recycling were reported previously in the 2017 United States National Postconsumer Plastic Bottle Recycling Report.

Canada bans single use plastic by 2021

The Government of Canada is taking additional steps to reduce Canada's plastic waste, support innovation and promote the use of affordable and safe alternatives. Working with governments and businesses across Canada, the Government of Canada will:

- Ban harmful single-use plastics as early as 2021 (such as plastic bags, straws, cutlery, plates, and stir sticks) where supported by scientific evidence and warranted, and take other steps to reduce pollution from plastic products and packaging

- Work with provinces and territories to introduce standards and targets for companies that manufacture plastic products or sell items with plastic packaging so they become responsible for their plastic waste.

Canada's Prime Minister, Justin Trudeau, said his government will ban single-use plastics as early as 2021.

Trudeau said the government will research the question of which items it should ban and follow the model chosen by the European Union, which voted in March to ban plastic items for which market alternatives exist — such as single-use plastic cutlery and plates — and items made of oxo-degradable plastics, such as bags.

A full list of banned items has not yet been determined.

THE CLOSED DOOR BALER HAS EVOLVED.

BALEWOLF LINE OF BALERS



A Sebright Products & JWR, Inc. Partnership

WWW.BALEWOLF.COM

SNAG *Economical Compliance* with
CAR-Go-Net®

- Fused joints won't unravel
- Easy to apply in a single pass
- Multiple sizes in stock for immediate shipment



**INDUSTRIAL
NETTING**

800-328-8456 industrialnetting.com

PLASTICS

PepsiCo to use 100 percent recycled plastic for LIFEWTR

PepsiCo, Inc. announced that LIFEWTR will be packaged in 100 percent rPET (recycled polyethylene terephthalate), and bubly will no longer be packaged in plastic. The company's AQUAFINA® water brand will also offer aluminum can packaging in U.S. food service outlets, while the brand tests the move in retail. The changes, which all go into effect next year, are expected to eliminate more than 8,000 metric tons of virgin plastic and approximately 11,000 metric tons of greenhouse gas emissions, representing the latest ambitious steps in the company's sustainability journey and pursuit of a circular economy for plastics. They reinforce and advance PepsiCo's goals to by 2025 make 100 percent of its packaging recyclable, compostable, or biodegradable and use 25 percent recycled plastic content in all its plastic packaging.

"Tackling plastic waste is one of my top priorities and I take this challenge personally," PepsiCo chairman and chief executive officer Ramon Laguarta. "As one of the world's leading food and beverage companies, we recognize the significant role PepsiCo can play in helping to change the way society makes, uses, and disposes of plastics. We are doing our part to address the issue head on by reducing, recycling and reinventing our packaging to make it more sustainable, and we won't stop until we live in a world where plastics are renewed and reused."

Naked Juice, a category leader in premium fruit and veggie juices and smoothies, has been working since 2009 to ensure its bottles are made of 100 percent rPET and can be turned into bottles again and again. By making its bottles with rPET, the brand

also uses about 25 percent less energy than if it used virgin plastic.

PepsiCo is one of the largest users of food-grade recycled PET in the world, and the company is also working to help reliably increase the supply needed to meet its packaging goals.

In tandem with current suppliers and partners like The Recycling Partnership, Loop Industries, Alliance to End Plastic Waste, and World Economic Forum's Global Plastic Action Partnership (GPAP), PepsiCo is aiming to both increase recycling rates and improve the plastic recycling infrastructure.



Unifi supports sustainability at 2019 Wyndham Championship

Unifi, Inc. continued its support as an official recycling partner of the 80th annual Wyndham Championship.

Plastic bottles from last year's championship were transported to Unifi's bottle processing center in Reidsville, North Carolina and transformed into Repreve recycled fibers at its Yadkinville plant.

The Wyndham apparel stores at the tournament offered a special selection of

tournament branded products made by L2 Brands from Repreve recycled fibers.

Since the introduction of Repreve, Unifi has transformed more than 16 billion plastic bottles into products, with the goal of reaching 20 billion by 2020. With the participation of tens of thousands of golf fans, an estimated 1.8 tons of plastic bottles were collected, recycled and diverted from landfills after last year's tournament.



IBC CEO
Victor Biazis

First "Euro Style" Roller Platen Auto-Tie Baler Built in the USA by a US Company

ATX
AUTO-TIE BALER
10" Main Bore Cylinder
10" Tension Cylinder
Roller Platen
225 HP (Triple 75 HP)
5,000 PSI System Pressure
392,700 lb. Total Force
210 PSI Platen Pressure
44"x 44"x 72" Bale Size
Up to 45 Tons per Hour (OCC)

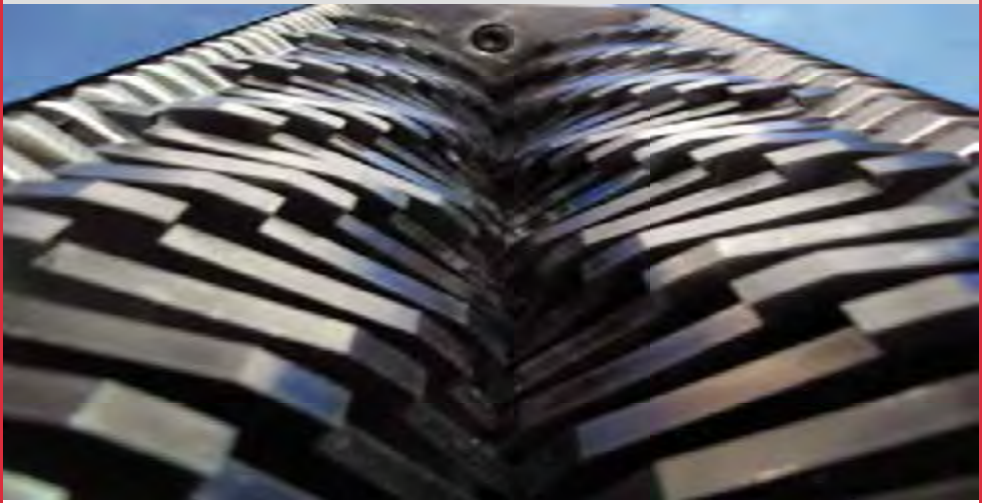


INTERNATIONAL BALER
Jacksonville, Florida | 1-800-231-9286 | WWW.INTL-BALER.COM

What if you could shred to your desired size...

WITHOUT SCREENING?

Or without fines...masking or slowing throughput?



Introducing the BCA Industries Patented

SINGLE PASS TECHNOLOGY

BCA can design a system for the size you need without screens using just 1/5 the HP of a Hammermill.

• PLASTIC	• RUBBER	• FILM
• PAPER	• WOOD	• MSW
• CARDBOARD	• METAL	• MIXED

AVAILABLE FOR ALL OF OUR SHREDDER MODELS!

SEND SAMPLES TO: BCA INDUSTRIES
4330 W GREEN TREE RD MILWAUKEE WI 53223



414.353.1002 bca-industries.com

PAPER

American Forest & Paper Association releases August 2019 paper reports

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

Containerboard

Containerboard production in August 2019 decreased 2.4 percent compared to August 2018 and was down 4.9 percent year-to-date. The average daily production compared to July 2019 was 3.2 percent higher.

The containerboard operating rate increased from 89.9 percent in July to 92.8 percent – the highest rate so far this year. The total linerboard rate increased to 91.6 percent, going above 90 percent for only the third time this year. Nevertheless, the August total operating rate was 4.6 points lower than the same month last year, and the year-to-date operating rate was down 6.3 points. Production for export, most of which is linerboard, was down 12.2 percent month-over-month and was down 17.7 percent year-to-date.

Printing-Writing Paper Report

According to the August 2019 Printing-Writing Monthly report from AF&PA, total printing-writing paper shipments decreased 14 percent in August compared to August 2018. U.S.

purchases of total printing-writing papers declined 13 percent in August compared to the same month last year. Total printing-writing paper inventory levels remained essentially flat compared to July 2019.

•U.S. shipments of coated mechanical (CM) paper decreased seven percent in August from the same month one year ago. The inventory level of CM papers increased eight percent in August compared to July. CM imports increased while exports declined in July 2019.

•U.S. purchases of uncoated mechanical (UM) papers decreased 16 percent in August when compared to August 2018. Inventories decreased eight percent compared to last month. Imports and exports of UM papers in July 2019 both decreased year-over-year.

•U.S. shipments of coated free sheet (CFS) papers decreased 18 percent year-over-year in August while U.S. purchases of uncoated free sheet (UFS) paper decreased 12 percent. Inventory levels at the end of August when compared to July decreased for both CFS and remained flat for UFS

papers. In July, imports and exports of CFS both decreased and for UFS papers, both increased year-over-year.

Boxboard Report

Total boxboard monthly production decreased 1.0 percent when compared to August 2018. The total boxboard operating rate was 94.1 percent for August. Total Solid Bleached Boxboard & Liner production decreased 0.4 percent year to date; Recycled Boxboard production fell 1.0 percent year to date; and Unbleached Kraft & Gypsum decreased 0.5 percent year to date.

U.S. Packaging Papers & Specialty Packaging

Total packaging papers shipments were down 10.1 percent from August 2018 and down 5.3 percent year-to-date. Bag and sack shipments were down 4.0 percent year-to-date, multi-wall shipments were down 13.3 percent, food wrapping shipments were up 5.6 percent, and converting shipments were down 8.3 percent. The operating rate for August increased to 87.6 percent compared to 81.6 percent in July. Inventory levels increased 5.5 percent from July.

Indonesia again revises paper import standard

ISRI has learned that the Indonesian government has directed preshipment inspection companies to inspect materials for a 0.5 percent prohibitives tolerance. Although official policy hasn't yet been seen, preshipment inspection companies are informing their customers of this requirement.

Indonesia is a major consumer of imported recovered paper, which provides approximately 50 percent of the needs of Indonesia's paper mills and companies. However, in relation to the global attention on plastics, the government implemented tighter preshipment inspection requirements in June with little notice, resulting in shipments arriving to ports the government deemed as noncompliant although they had been inspected according to the former regime. Because of this, the Ministry of Environment & Forests instituted an import ban on mixed paper and has been working to finalize import requirements for other paper grades.

When ISRI and its representatives visited Indonesia, they were told the government was concerned about the ISRI specifications for prohibitives given the country's poor waste management infrastructure. ISRI and PSI continue to be in frequent contact with authorities in Indonesia to encourage a final import policy that is based on the ISRI specifications, which are based on the market.

Classified ADVERTISEMENTS



Rates

Text Classifieds

\$70 for up to 50 words.
Add \$1 each additional word.

Display Classifieds

\$75 per column inch depth,
2.5" width.

877-777-0043

—Always Available—

PLACE YOUR TEXT AD ONLINE

www.AmericanRecycler.com

WE ACCEPT CHECKS, MONEY ORDERS,
MASTERCARD, VISA and DISCOVER.

ALL CLASSIFIED ADVERTISEMENTS
MUST BE PAID IN ADVANCE.

Featured Classifieds

OUR SERVICES

Mergers & Acquisitions Consulting
Business Valuation & Brokerage
Specialty Waste Transportation
Management Consulting and Advisory
Asset Preservation & Reorganization
Waste To Energy Consulting
New Business Opportunities



STERN CONSULTING

609.854.3520 tel
609.854.3596 fax
rs@sternerconsulting.com
sternerconsulting.com

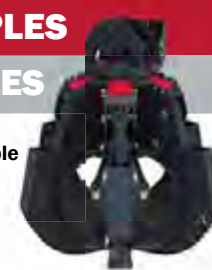


GRAPPLES

MAG GRAPPLES

New/Used grapples and magnet grapples available for immediate delivery.

Moley's magnet grapple design offers maximum capacity compared to competitors.



1(844) M-MAGNET

sales@moleymagneticsinc.com
moleymagneticsinc.com

WANTED: Great customers who have things to sell and money to make! Call 877-777-0043 to get started today.

Separation Solutions Engineered for Tonnage

VIBRA-SNAP® Screen



Patented Flip-Flow Technology

The **VIBRA-SNAP® Screen** is an effective alternative to rigid screening systems for processing materials with inherent blinding characteristics and is ideally suited for efficient screening of moist, sticky, fibrous, wet bulk materials with a high percentage of fines or near size particles.



www.actionconveyors.com

sales@actionconveyors.com | 503.537.1111

VIBRATORY EQUIPMENT

ADVERTISE IN AMERICAN RECYCLER

877-777-0043
www.AmericanRecycler.com



Auto Recycling

SAS SCORPION ENGINE PULLER



New Class 30 engine puller ready to be put to work on your Volvo wheel loader. Generate more revenue from your cars with this efficient tool by separating more metals and valuable wire. Built to last and easy to maintain. Asking \$45k FOB.

erics@aaaparts.com | 651-322-1800 x205

IRON AX ENVIRO-RACK

Complete fluid removal in less than 5 minutes!



The Enviro-Rack is the most superior auto fluid removal and dismantling system on the market today.

877-247-6629 • IronAx.com

Businesses

WELL MANAGED, HIGHLY PROFITABLE scrap metal recycling and auto salvage yard for sale, 12 years in business, turn-key operation, 2 buildings on 14 acres, one of the biggest u-pull-it yards in central Florida, with over 1,500 vehicles. All licenses and permits ready, huge potential for growth. Asking \$1.3M for real estate, equipment and parts inventory. Please call Jeff at 646-541-1858.

TWO FEEDER YARDS FOR SALE in Northwestern Pennsylvania, both close to I-80, 15 miles apart, lots of support equipment and inventory, looking for offers over \$2 million. Partial financing considered. Fax for details: 814-772-9735. E-mail: dfk.amr@gmail.com

13+ SCRAP YARD AND PICK-A-PART YARD for sale located in Northeast Pennsylvania, within 4 miles of several major interstates. In business for over 60 years with active rail siding on the Norfolk Southern. Willing to sell as yard or as yard with equipment. Serious inquires only, please call 570-840-9347.

Containers

BomacCarts

A Cut Above the Rest



www.bomaccarts.com • sales@bomaccarts.com
1-800-909-1147

Material Handlers

KUHN EQUIPMENT

FEATURED MACHINES



2008 John Deere w/ Genesis 700 shear – cab guard, dual pump flow, REBUILT Genesis GMS700 with new blades, upper and lower built up, cylinder and regen resealed, etc. Ready to go. **Call for price!**



2011 Fuchs MHL340D MH – 12,000 hours, 45 ft reach, hyd cab, gen set, heat & A/C, 3/4 yard grapple w/360 rotation, good condition. **Call for price!**

VISIT
KuhnEquipment.com
TODAY FOR
MORE QUALITY MACHINES!

800-225-0623
after hours: 843-324-8487
sales@kuhnequipment.com

Material Handlers

KUHN EQUIPMENT

FEATURED MACHINES



2011 Cat M318D MH – 11,600 hours, 34 ft reach, hyd cab, sorting stick, Cat sorting grapple w/360 rotation. **Call for price!**



MH2009 Liebherr A904C – 12,000 hours, 38 ft reach, hyd cab, 5 tine rotating scrap grapple. Good condition. **Call for price!**

VISIT
KuhnEquipment.com
TODAY FOR
MORE QUALITY MACHINES!

800-225-0623
after hours: 843-324-8487
sales@kuhnequipment.com

3 Rebuilt Ohio Scrap Magnets



\$25,000 each, 76" in size, 13,000 lbs. Recently used in a large foundry.
FOB Manitowoc WI
Contact Eric (920) 693-8261

Material Handlers

1988 Northwest 5030



One of the best cable scrap handlers on the market! Hi cab 70 ft boom, GM engine, Baldor generator for magnet, 30 ton machine, ready to work!

\$50,000 FOB Wausau WI
Contact Eric (920) 693-8261

Miscellaneous

WANTED DEAD OR ALIVE: Skid steer loaders, all brands – Bobcat, New Holland, Case, Gehl, Mustang, Thomas, etc. Any condition, all or part. Many used, new and rebuilt parts available. Call 407-341-2577, ask for Allen or e-mail allenroberts1976@gmail.com.

WE BUY AND SELL USED RECYCLING EQUIPMENT

HOVDE RECYCLING EQUIPMENT
800-617-5219 TEXT 320-760-5688
scrapequip.com steven@scrapequip.com

SEPARATION SOLUTIONS ENGINEERED for TONNAGE



PATENTED FLIP-FLOW TECHNOLOGY

ACTION Actionconveyors.com
503-537-1111

THE ORIGINAL CATALYTIC CONVERTOR REMOVAL TOOL: Our powerful and easy-to-use products are unsurpassed and we've been making them for 20 years! Choose from 110 or 12-volt, gas or de-canning models. Our three hydraulic models are fast, safe and effective. Custom applications provided as well! 800-999-8100, www.supershears.com

**Classified Ads Continued
on Page 22**

NEXT DEADLINE: October 18

**Call us at 877-777-0043 or visit us
online 24/7 at www.AmericanRecycler.com**



Classified

ADVERTISEMENTS

877-777-0043
—Always Available—
PLACE YOUR TEXT AD ONLINE
www.AmericanRecycler.com

Rates

Text Classifieds \$70 for up to 50 words. Add \$1 each additional word.	Display Classifieds \$75 per column inch depth, 2.5" width.
--	--

WE ACCEPT CHECKS, MONEY ORDERS, MASTERCARD, VISA and DISCOVER.
ALL CLASSIFIED ADVERTISEMENTS MUST BE PAID IN ADVANCE.

Miscellaneous

Brawler HPS Solidflex Tires



Set of 4 like new tires and rims for Hyundai loader. Uses 17.0 – 25 rim; 20.5x25.

Asking price **\$4,000 per tire + rim.**
Contact Christina for more information:
dispatch@pickapartva.com

Hi-efficiency, new technology. INCREASE PROFITS! SWEAT FURNACES



US Furnaces's
MAX-4000

Also:
PARTS • REPAIR • CUSTOM BUILDS

518-424-1168
www.RecyclingFurnaces.com



E-NewsVoice

TIRE-RECYCLING EQUIPMENT
FROM CAR TIRES TO \$9/BOGGS

Business Owners
The Green
Eagle
Eagle
Eagle

WWW.EAGLE-EQUIPMENT.COM

September Issue Available Now!

**LARGEST ARTIFICIAL REEF EXPANSION
IN NEW YORK STATE HISTORY**

E-NewsVoice DIGITAL AD Opportunities

- Valuable digital exposure
- Focused audience
- Low cost
- Free ad design services
- Various ad sizes
- Fits any budget

Book Your Spot Now!

877-777-0043
www.AmericanRecycler.com

BUSINESS BRIEFS

Terracycle and Paula's Choice Skincare partner

■ Paula's Choice Skincare, a personal care brand, in partnership with TerraCycle®, has launched the Paula's Choice Skincare Recycling Program.

Through this innovative recycling program, consumers can now send in their Paula's Choice product packaging waste to be recycled for free. Participation is easy: sign up on the TerraCycle program page and mail in the packaging using a prepaid shipping label. Once collected, the packaging is cleaned and melted into hard plastic that can be remolded to make new recycled products. Additionally, for every shipment of Paula's Choice Skincare product packaging waste sent to TerraCycle, collectors earn points that can be used for charity gifts or converted to cash and donated to the non-profit, school or charitable organization of their choice.

The Paula's Choice Skincare Recycling Program is open to any interested individual, school, office or community organization.

James River Equipment is new Sennebogen dealer

■ Sennebogen LLC president Constantino Lannes welcomed James River Equipment as the manufacturer's dealer in Virginia.

Originally founded in Colorado in 1926 by Rudolf Romer, James River Equipment has long since migrated to its current base near Richmond, Virginia, now led by the founder's great-grandson, Mark Romer. The dealership represents the full range of John Deere equipment throughout a four-state area, including eight branches in Virginia that will support the Sennebogen line.

Sennebogen's resources in North America also complement James River's commitment to service and parts. Although Sennebogen machines aren't manufactured in the U.S., Sennebogen LLC, in nearby Stanley, North Carolina, maintains a 100,000 sq.ft. facility for its head office, warehouse and training center.

McCloskey names new dealer manager

■ McCloskey International has appointed Daragh Cullen as dealer manager, primarily responsible for dealer relations and recruitment for the Eastern U.S. and Caribbean.

Cullen brings an extensive knowledge of the marketplace and over two decades in the industry to the position, working with major OEMs overseeing the Americas and Caribbean.

In the position of dealer manager, he will continue the close working relationship McCloskey enjoys with its distribution partners, as well as identify and recruit prospective dealers.

Daragh will be based out of Florida and will be responsible for managing the company's sales growth across the Caribbean and the eastern U.S.

BioLogiQ appoints Steven Sherman as president

■ BioLogiQ, Inc., a bioplastic resin manufacturing company specializing in sustainable plastic products made from renewable resources, has appointed Steven Sherman as president and chief operating officer, NuPlastiQ with responsibilities centered around the global commercialization and production scale-up of its NuPlastiQ BioPolymers and BioBlend Resins.

Sherman's prior experience included C-Suite stints with high technology start-ups including Coactive, Inc., and HZO, Inc. He also spent 18 years in executive management with the production engineering company Hirata Corporation of America, running corporate operations as well as their Light Assembly Division. Sherman holds an MBA from Westminster College, and received his BA in Japanese/Asian Studies from Brigham Young University.

TIP Trailer Services to acquire Trailer Wizards

■ TIP Trailer Services, a portfolio company of I Squared Capital, has signed an agreement to acquire Trailer Wizards Ltd., a supplier of trailer rental and leasing services in Canada. TIP first expanded from Europe into Canada in 2016 with the purchase of Train Trailer. The acquisition of Trailer Wizards will add 21 locations, over 400 employees and a diversified fleet of over 23,000 units in Canada.

Following the transaction, TIP's Canadian division will have a combined fleet of over 33,000 trailers, reefers, chassis and flatbed/drop-deck configurations. The company will employ a staff of over 500 people, including approximately 300 mechanics, throughout almost 30 locations in Canada from Prince Edward Island to British Columbia.

The transaction is subject to customary closing conditions and regulatory approvals.

Meridian Waste acquires two Augusta haulers

■ Meridian Waste, an integrated, non-hazardous solid waste services company, has acquired the contract assets of Waste Solutions, and A&L Waste Removal, Inc.

The acquisitions will fold in with Meridian Waste's existing operations located at 1625 Marvin Griffin Road but expand collect services to Columbia County and Hephzibah, Georgia. No trucks or employees transitioned at the closings.

Soon after marriage, a lady's husband stopped wearing his wedding ring. She asked, "Why don't you ever wear your wedding band?"

He replied, "It cuts off my circulation."

She answered back, "That's the whole point!"

ROLL-OFF TRUCK REPLACEMENT!

SUPER MINI for 20/30/40 YD BOX

- Carries 52-90% more in most states
- More Maneuverable than a truck
- Only 25' 11" Long

Now
In
Stock!



- ROLL OFFS
- CRUSHED CAR TRAILERS
- PUPS, TWO BOX, DUMPS & MORE!

BUY PARTS ONLINE 24/7

Rollers, Straps, Sheaves, Cylinders,
Hydraulic Valves, Cables, Tarps & More!
www.rollofftrucktrailerparts.com

734-722-8100
www.benlee.com

SALES, TRADE-INS WELCOME!

greg.brown@benlee.com

**Don't Gamble with
Your Marketing Dollars.**



Advertise with us.

877-777-0043

NEW & USED EQUIPMENT FINANCING IS AVAILABLE

Get the cash you need — it's quick and affordable.

*We are industry experts and our clients love us!
Give us a call today and we'll discuss your options.*

DADE
Capital Corp.



800-823-9688

**35 Years of
Specializing in:**

- Salvage
- Recycling
- Waste



APPLY ONLINE TODAY

www.DADECapital.com

IRON AX ENVIRO-RACK

ALL ENVIRO-RACKS ARE MADE IN AMERICA WITH AMERICAN STEEL FOR AMERICAN-SIZED CARS.

The Enviro-Rack is the most superior auto fluid removal and dismantling system on the market today!

**Complete fluid removal
in less than 5 minutes!**

Includes a
Gas Separation System

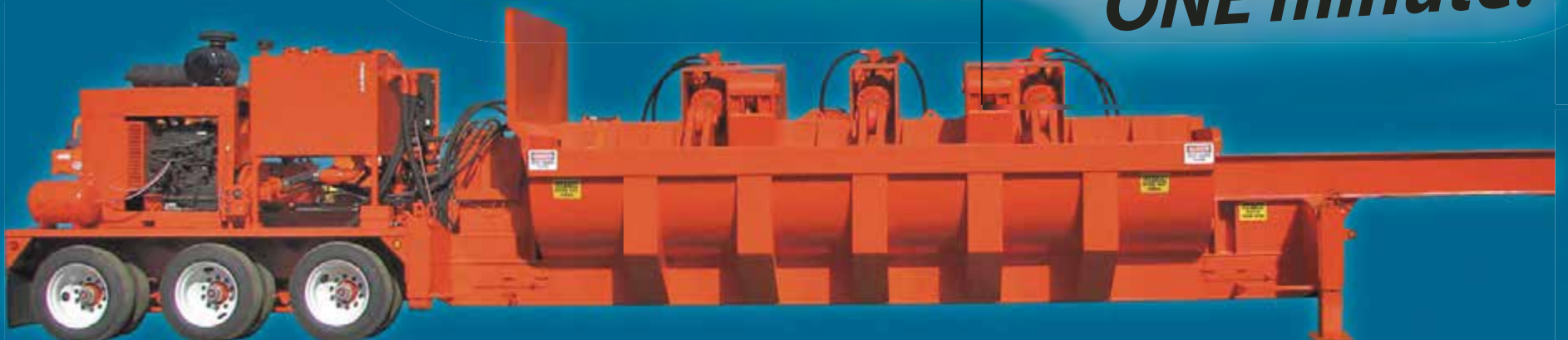
NEW!

Keep the good gas!



IRON PACK BALER

***Bale a CAR in
ONE minute!***



Remote Control • Automatic Cycle

 **RECYCLING**
EQUIPMENT SALES, INC

Toll-free 877-247-6629

Fax 478-252-9030
Wadley, Georgia

Website: www.ironax.com
E-mail: ironax@ironax.com

**Equipment Ready For
Shipment Today**

Contact us for full details!



IRON AX SHEAR PACKAGES

All shears feature 360° continuous rotation.

You Tube

View the Iron Ax YouTube Channel
to see the Iron Pack Baler
In Action Today!

GM opens \$65 million parts center

General Motors Co. opened a new ACDelco and GM Genuine Parts processing center in the Flint, Michigan, suburb of Burton. The state-of-the-art facility will employ more than 800 hourly and salaried employees.

GM now employs more than 9,500 people in Genesee County, including the Grand Blanc headquarters of the company's Customer Care and Aftersales business and the Flint manufacturing complex.

"This new facility in Burton will help us continue to deliver the industry's best possible sales, service and ownership experience," said Barry Engle, GM executive vice president and president, the Americas. "Strategic investments in our core business, and the strong U.S. economy, are creating opportunities for GM and its employees all over the country, and especially here in Michigan."

All positions in Burton support GM's CCA business – the team responsible for supporting the service and repair needs of millions of GM vehicle owners as well as owners of competitive makes.

The 1.1 million sq.ft. plant, located on 141 acres on Davison Road, is triple the size of the facility in Burton that it is replacing. The increased capacity allows for greater efficiency and output as employees unitize and package as many as 120 million service parts a year.

The parts packaged and distributed from Burton are used to maintain every Chevrolet, Buick, GMC and Cadillac vehicle sold in the U.S., as well as hundreds of competitive vehicles.

An average of 100 inbound deliveries and 55 outbound deliveries are expected each day.

The facility has 84 shipping and receiving docks, up from 35 at the previous site.

The focus turns to closed-loop recycling in the auto industry

by MAURA KELLER

mkeller@americanrecycler.com

As the automotive industry continues to grow and thrive, automotive manufacturers and recycling companies are turning their attention to enhancing the closed-loop recycling efforts of the U.S.

Closed-loop recycling is a process that has had a profound impact on the manufacturing sector of the automotive industry. The material is recycled to its original state without losing key properties – ultimately allowing the material to be used indefinitely. In terms of environmental sustainability, closed-loop recycling is superior to open-loop recycling because it helps reduce the natural resource consumption for producing virgin material for vehicles.

According to Rodney Krawczyk, president of the Automotive Recyclers Association of New Jersey, from the earliest days of motorized travel to today, professional automotive recycling has evolved into a sophisticated market and technology-driven industry that constantly changes to keep abreast of innovations in automotive technology and manufacturing techniques.

"The industry has grown exponentially over the past several decades," Krawczyk said. "The industry is a vibrant and thriving part of the automotive supply chain. In the U.S., automotive recycling businesses employ over 140,000 people at more than



The U.S. tends to focus primarily on the purest form of recycling first and that is to REUSE automotive parts.

PHOTO BY MARCEL PONCU | DREAMSTIME

9,000 locations, representing over \$32 billion in sales annually."

So how does the U.S. automotive recycling industry compare to other countries, particularly those with a closed-loop infrastructure in place? What can we learn from other countries and what can they learn from us?

Krawczyk said the biggest difference in the U.S. is that we focus primarily on the purest form of recycling first and that is REUSE.

"In the U.S., approximately 11 percent reuse of recycled original equipment parts are used in insurance paid repairs compared to 1 to 2 percent in most other countries around the world," Krawczyk said. The Auto-

motive Recyclers Association of New Jersey does not have exact figures on the reuse of recycled original equipment parts outside of insurance paid claims. However, with the growth of the self service sector of the industry, the reuse usage appears to be quite healthy.

The international members of the Automotive Recyclers Association would favor higher reuse rather than seeing vehicles go directly to end of life disposition where all metals and materials are recovered in closed loop recycling.

"Many countries are forced into these positions by heavy government oversight and end of life directives where manufacturers are

responsible cradle to grave for the vehicles they manufacture," Krawczyk said.

Indeed, leading automotive manufacturers in Japan and the EU, including Toyota and Jaguar are embracing the circular economy and identifying ways to establish a closed-loop system that can reutilize a large portion of vehicle aluminum and other components. For instance, in 2014 Toyota announced that it had developed a system to extract and recycle copper from vehicle wiring harnesses without it being contaminated by impurities and successfully reintroducing it into the vehicle production process. Likewise, Jaguar Land Rover is working on

See CLOSED-LOOP, Page B6

Reliability, Productivity and Innovation...



with a long history of **building customer loyalty** that's as strong as our balers!



MAREN
Balers & Shredders
Building customer loyalty since 1962.

Find your next Maren Baler at: 800-875-1038 • marenengineering.com • sales@marenengineering.com

New leaders selected for three Adesa Auctions

Adesa, a business unit of global vehicle remarketing and technology solutions provider KAR Auction Services Inc., announced new general managers at two U.S. and one Canadian auction locations: Jeff Hyde at Adesa San Diego, Kjersta Loyd at Adesa Northwest in Eugene, Oregon, and Matthew Creese at Adesa St. John's in Newfoundland, Canada.

Hyde has more than 25 years of auction experience, serving most recently as assistant general manager of Adesa Los Angeles. Previously, he held the role of commercial accounts manager before being promoted to operations manager in 2015. He has also managed body shop and reconditioning departments.

Loyd spent two decades at Adesa, starting in the body shop. After serving that location as assistant fleet/lease manager, internet sales manager and consignment sales manager, Loyd then held positions at Adesa Houston, general sales manager at Adesa Golden Gate and most recently, director of sales for the Midwest region.

Creese has a wealth of experience in the automotive industry, serving most recently as customer viewpoint director for Al Jazirah Vehicles Agencies, the official and exclusive Ford distributor for Saudi Arabia. Previously, he served as network development and franchise manager for the South Africa and sub-Saharan Africa region for Jaguar Land Rover.

Novelis reaffirms Aleris acquisition commitment

Acquisition will strengthen aluminum industry's ability to compete against steel in U.S. market

Novelis Inc., a leader in aluminum rolling and recycling, reaffirmed its full commitment to closing its proposed acquisition of Aleris Corporation, notwithstanding the U.S. Department of Justice (DOJ) lawsuit to block the transaction.

Novelis intends to vigorously defend against the DOJ's challenge, which it believes is without merit.

The DOJ lawsuit is based on the contention that the only relevant competition among automotive body sheet providers is that among aluminum manufacturers such as Novelis and Aleris. It ignores competition from steel automotive body sheet, even though steel automotive body sheet is currently used for nearly 90 percent of the market.

"The day-to-day reality of the automotive body sheet market is aluminum automotive body sheet striving to take share from steel, and the steel automotive body sheet companies fighting back," said Steve Fisher, president and chief executive officer, Novelis Inc. "We are disappointed that the DOJ has missed this, but also confident that in the next phase of this process the full scope of the competition we face will be recognized appropriately. Our merger with Aleris threatens no one, and to the contrary will strengthen our

ability to compete against steel, meet growing customer demand for aluminum, achieve our recycling goals, and bolster our sustainability platform worldwide."

To prevail in its lawsuit, the DOJ will need to prove that there is a distinct "relevant market" for aluminum automotive body sheet, which means that steel automotive body sheet does not significantly constrain the price and quality of aluminum automotive body sheet. The DOJ does not deny that steel automotive body sheet usually competes with aluminum automotive body sheet, but instead contends that the constraint from steel is absent from some procurements (where an automotive manufacturer has supposedly already decided between steel and aluminum). Novelis believes that by focusing on just a small slice of steel-aluminum competition and ignoring the broader competitive process, the DOJ's theory contravenes well-established principles of market definition.

The DOJ also disregards the extraordinary bargaining power of the automotive manufacturers and their ability to generate bid processes that will ensure competitive pricing for automotive body sheet.

Due to the agreement reached with the DOJ on a timetable and process for resolving this dispute, Novelis is confident that the DOJ suit is not an impediment to closing the transaction by the January 21, 2020, outside date under the merger agreement, even if a remedy is required to address the DOJ's competitive concerns.

The company is confident that the transaction will ultimately receive all necessary regulatory approvals in the U.S. and in other relevant jurisdictions.

Michigan's first electric school buses delivered



Michigan's first electric school buses were showcased in September in Lansing under a program that supports cleaner air, alternative fuel options, and a safer environment for children.

Seven Michigan school districts are slated to receive 17 electric buses under a diesel bus replacement project financed in part by a Volkswagen Mitigation Settlement allocation through the Michigan Department of Environment, Great Lakes, and Energy's Fuel Transformation Program.

With the support of EGLE's Materials Management Division, the Michigan Association for Pupil Transportation developed the project and convened stakeholders who worked collaboratively toward a healthier environment for years to come, for children and communities.

Zeeland Public Schools is the project manager for the Fuel Transformation Program grant, and the electric buses will operate in Zeeland, Ann Arbor, Gaylord, Kalamazoo, Oxford, Roseville and Three Rivers.

With electric school buses, children's exposure to harmful diesel exhaust fumes and particles drops to zero. In addition, no fumes from buses idling near opening and closing doors are drawn inside the school building, where children spend most of their day. Diesel emissions from older buses are not only immediately harmful, but also contribute to long term damage to the environment.

Funding for the Fuel Transformation Program comes from Michigan's allocation from a nationwide settlement after Volkswagen was fined for installing emission control defeat devices on many of its diesel vehicles.

Upcoming grants from the Fuel Transformation Program will include reimbursements to replace older diesel vehicles and equipment, including:

- School buses (with propane, clean diesel or hybrid models).
- Local freight vehicles: medium and large trucks and port drayage trucks.
- Shuttle and transit buses.
- Freight switchers.
- Airport ground support equipment.
- Ferries and tugs.
- Marine shore power.
- Port cargo handling equipment and forklifts.

WheelPopper

Separates scrap tires from steel & alloy wheels in seconds

Save time and money!



- Buy direct from the manufacturer
- World wide delivery to your door



From
\$6,950

AutoDrain
Experts in vehicle depollution

sales@autodrain.net
www.autodrain.net

It only takes



With just ONE call to
American Recycler News,
you'll get the equivalent
of an entire sales force.

DON'T WAIT ONE MORE MINUTE!

Call 877-777-0043 or e-mail
sales@americanrecycler.com.

RDN achieves Veracode Verified Team Status

Software security requires a high standard to reduce risk to consumers

KAR Auction Services Inc., a global automotive remarketing and technology services provider, announced the Veracode Verified Team Status certification of Recovery Database Network (RDN). Veracode Verified is a program that validates a company's secure software development processes by testing for potential vulnerabilities and evaluating its software security. This industry-leading verification helps assure RDN customers across the repossession and disposition value chain of its commitment to securing their data.

"RDN is continuously making enhancements through data science and building on its digital suite of solutions," said Pradeep Mahdevu, vice president of RDN. "Undergoing rigorous security testing, implementing strict development practices, and earning Veracode Verified certification ensures that our digital solutions meet a high standard of application security, reducing risk for our customers."

For more than 10 years, RDN's software-as-a-service technology has enabled automotive lenders with improved recovery performance and increased operational efficiency while providing full security and transparency. Similarly, Clearplan's digital platform provides recovery agents,

drivers, forwarders and automotive lenders a centralized, mobile, cloud-based hub for repossession workflow and logistics management. Together, Clearplan and RDN connect thousands of recovery agents and automotive lenders to a streamlined vehicle recovery process — with reduced redundancies and increased actionable data.

Organizations like RDN that had their secure development practice validated, and their application accepted into the Team Tier, have demonstrated that the following security gates have been implemented into their software development practice:

- Assesses first-party code with static analysis
- Documents that the application does not allow very high flaws in first-party code
- Provides developers with remediation guidance when new flaws are introduced
- Assesses open source components for security flaws
- Identifies a security champion within the development team to ensure secure coding practices are used across the development lifecycle.
- Provides training on secure coding best practices for the identified security champion.

U-PULL-IT? U-PROFIT!

with

SELF-SERVICE AUTO RECYCLING SYSTEM

CRUSH™

Ask us about **CRUSH LITE!**

SIMPLIFY SEARCHES and INCREASE PROFITS

- Simple touch screen POS for speedy checkout
- Integrated Interchange to locate all possible vehicle matches in your yard
- Save thousands in NMVTIS Submissions
- Pre-bid vehicles with curb weight options
- Track scrap & commodity sales
- Daily management reports
- Vehicle purchasing, scanning, yard tracking & search features

SEE DEMOS
at our
WEBSITE!

We offer
**URG Core
Integration**
for an added
revenue
stream!

Ask about our
**DATASAFE
DISASTER
RECOVERY**
product



Software
Solutions

801.355.3388
s3softwaresolutions.com

FOLLOW US ON TWITTER @SASFORKS



WORK EFFICIENTLY

CALL TODAY & PROSPER TOMORROW

SAS Extreme Auto Processor

Maximize your cash flow from your auto scrapping and recycling operations.

This is an excellent tool for self-service salvage yards, such as you-pull-it and U Pick It-type operations AND for shredding facilities.

4-Tine Orange Peel Grapples

2 Year or 4,000 Hour Warranty



SASFORKS
engineered tough

www.sasforks.com

877-727-3675

E-mail sales@sasforks.com

EQUIPMENT SPOTLIGHT

Logger/Balers

by MARY M. THORNTON

maryt@americanrecycler.com

Automobile loggers and balers play an integral role in reducing overall volume for transport and general handling.

One manufacturer, Iron Ax, produces a 20 foot baler. "Our normal build for inventory consists of a 20 foot baler with no crane. If a customer wants a baler with a crane we can certainly accommodate that request. Our machines are heavy duty and built to last. They all feature remote control and automatic cycle. Our product's baling cycle is high speed – approximately one minute long. Hydraulic pressure can be adjusted at the touch of a button. Adjustable hydraulic pressure is beneficial because it allows the user to choose either a tight or a loose bale with our Iron Pack Baler," noted John Kitchens, president.

He said Iron Ax has been well established in the scrap industry for years. Clients of the firm benefit from the collective expertise of the firm's employees as they design and manufacture equipment. "We use balers on a daily basis so our user knowledge helps us build products that the marketplace demands. Our baler is very popular for a number of reasons. For instance, our company is stable. When customers call they are talking to the same staff they have been talking to for 25 years. When it comes to service, our customers know that we are there for them, and we stand behind our product," Kitchens said.

Kitchens explained that set up time for the Iron Ax baler is minimal



Iron Ax

– a matter of minutes – and that the unit is designed to increase maximum production and efficiency. He commented that baler sales continue to improve because yard owners realize the need for a baler. "With a car crusher you are limited to crushing cars. With a baler you can process cars, white goods, loose iron and more. A baler is a versatile machine because it can process various types of scrap. Many of our clients have discovered they can purchase more material or more types of material than prior to purchasing a baler and they are now able to process those materials with ease."

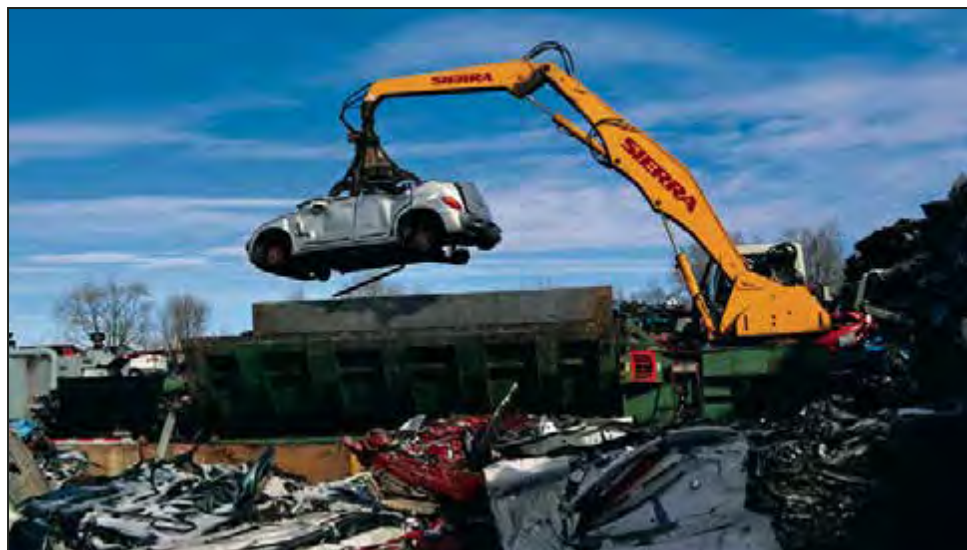
The RM Johnson portable E-Z Log Baler produces a bale in a fast, neat process. "It is ready to operate, after a fluid level check and a user can move the grapple crane up to 400", reach out 23' and lift 2,000 lbs. By selecting the metal type and volume of each bundle, a user can produce log bales to fit the requirement

of the desired market and the E-Z Log Baler can operate from the control platform. The unit can be moved to the same location as the scrap that must be processed. We offer three other logger models as well," stated Dave Van Vleet, sales manager.

He added, "Even expensive machines are worthless if the final product can't be shredded. Our innovative hydraulic compression sequence solves this problem. Once loose scrap is loaded onto the baling chamber, the E-Z Log, as opposed to mere compressing, produces a log that will stay together even when dropped. Yet the rolled logs remain loose and low density enough for a 1,500 hp shredder to easily process them."

He claims the simple but unique design of the machine, with easily accessible components, aids trouble-free operation and servicing. "Fewer moving parts and smaller hydraulic cylinders produce a better bundle at a lower processing cost than other loggers. All of the hydraulic cylinders are manufactured with high-grade, seamless, polished steel at our factory. All E-Z Log Balers also use standard parts and components. Operating instructions are provided by our trained specialists and baler options include stationary or portable; diesel, gas or electric engines. Custom designs and specifications are also available," Van Vleet concluded.

Sierra's portable baler/loggers were designed to exact specifications and to be easily portable while still maintaining the heavy-duty and dependable construction needed for the scrap and automotive industries.



Sierra International

"Each portable baler/logger offers versatility and strength with the heaviest lifting capacity on the market," said John Sacco, president and owner.

The Sierra line of car loggers were introduced in the late 1990s because there was a need for a dual application machine that could be used by scrap processors and auto wreckers. Not only did they need to process automobiles to get them to the auto shredders, they also had to process sheet iron, and the most efficient way to process both products was by logging them. Also, the advent of the 3,000 to 6,000-horsepower shredders allowed logs to be a preferred item in large shredders because they could run multiple logs at a time instead of one flattened car. The first car logger introduced by Sierra was the RB5000. However, due to the size of American cars,

See **LOGGER/BALERS**, Page B5

MANUFACTURERS

C&C Mfg.
Curt Spry

800-255-6620
www.candcmfg.net

Colmar USA, Inc.
Liliana Gambino

716-693-9877
www.colmarequipment.com

Imabe of America Corp.

Cesar Benitez
786-773-2620
www.imabeus.com

Iron Ax
John Kitchens
877-247-6629
www.ironax.com

Overbuilt, Inc.
Steve Besch
800-548-6469
www.overbuilt.com

The RM Johnson Co.
David Van Vleet
800-328-3613
www.ezcrusher.com

Sierra International
Jose Pereyra
800-343-8503
www.sierraintl.com

**WHY CRUSH
WHEN YOU
CAN BALE?**
It takes just ONE minute to bale a car!

THE IRON PACK BALER
Remote Control • Automatic Cycle



IRON Ax
877-247-6629
www.IronAx.com

Logger/Balers ■Continued from Page B4



The RM Johnson Co.

Sierra introduced the RB6000, which features a box measuring 6 meters and accommodates large vehicles.

According to Sacco, "The RB6000 is one of the top selling car loggers in the United States because it features the heaviest construction and the highest lifting capacity crane, compared to similar models on the market. The machine logs even automobiles that still contain an engine block and transmission. When running an RB6000 at full capacity for 5 days a week, customers report output at 1,000 tons a week and over 50,000 tons a year."

Sierra also offers a line of shear/baler/loggers – which can provide an ideal solution for auto wreckers who process scrap.

"These extremely versatile machines give processors the use of three machines in one. The T900 ton shear/baler/logger, for instance, is a fantastic car logger and a high production shear, which gives processors the versatility to shear, bale, and log material with one machine and with high efficiency. A portable baler/logger is helpful to companies that handle only automobiles but if they are a multipurpose scrap metal operation that processes scrap plus automobiles, a shear/baler/logger is an ideal option," commented Sacco.

A man spied a letter lying on his doormat. It said in big, bold print on the envelope, "DO NOT BEND."

He spent the next two hours trying to figure out how to pick it up.

SSAB Auto Steel receives supplier approval from Indian government

SSAB's entire hot and cold rolled range of Docol® automotive steel has been approved by the Bureau of Indian Standards (BIS). For Indian OEMs and Tier 1 suppliers, this means an easy access to important steel grades that are needed for creating lighter and safer cars. For SSAB, the result is an even stronger position in a booming market.

To support local industries in a fast-growing Indian economy, the National Standard Body of India created the BIS certification in 2016. The move is expected to foster standardization for all steel grades in the country, leading to better quality of products. The legislation had a large impact on steel imports for automotive manufacturing. Many advanced high strength steel grades, including Docol steel products, were subjected to the new regulations.

With the new vehicle safety standards in India coming in, there was an ever-growing demand for Docol automotive steel. Therefore, SSAB immediately applied for the BIS certification to ensure business continuity.

The SSAB manufacturing facilities in Borlänge underwent an extensive audit by BIS inspectors and a number of tests were conducted to verify the composition, quality and consistency of both hot and cold rolled grades of Docol steel. Upon completion, SSAB was awarded with a BIS certification for the entire Docol steel product portfolio for the Borlänge production facility.

"Docol is one of the very few advanced high strength steel grades that were awarded the BIS certification in the country. This was critical because it lets our customers know that we are here for the long run. When it comes to business, if a company does not have the BIS license, the material will not be cleared by the customs at India port. With non-approved material, import duties are also at risk of being raised to a higher percentage," said Subhabrata Mukherjee, sales manager at SSAB India.

An increasing number of vehicles are manufactured in India for Indian consumers – who rank safety as one of the most important factors when purchasing a new car. Therefore, the use of Docol steel is on the rise as OEMs aim to meet this demand.

"Currently, SSAB is ahead of our competitors in India, in terms of our advanced high strength steel offering," says Mukherjee. "The BIS certification allows us to provide an added benefit to customers here in India, so that OEMs can be confident that there are no last-minute surprises when deciding to use Docol steel," he added.

The BIS certification on Docol steel grades ensure that SSAB in India will be poised for even greater success as the Indian Automotive industry ramps up further, while facing even tougher standards and consumer demands in the future.

*"Don't buy a copycat,
buy the original!"*



SUPERSHEAR

www.supershears.com

800-999-8100
480.789.3893
(Outside USA)

See you
at the
ARA show
Booth # 427

SAFE
POWERFUL
EFFICIENT

THREE
DIFFERENT
MODELS



12-Volt



110/220-Volt



Gas Supershear

We have a Shear to Fit Your Needs ... CALL US TODAY!



Check Out Our
De-Canning Shear

As the maker
of the leading
Catalytic Remover Tool
for over 20 years,
we make harvesting
catalytic converters
profitable!

Closed-loop

■Continued from Page B1

streamlining its closed loop strategy to transform today's vehicles into tomorrow's cars.

Some of the driving forces behind Japan's focus on a closed-loop automotive recycling program are the result of the country's high population density and limited landfill space. In addition, although Japan is a major industrial producer, which includes automobiles, it has limited domestic metal and mineral resources, which makes closed-loop recycling very attractive.

In the U.S., Ford is following suit by embracing closed-loop initiatives in the manufacturing of the Ford F-150 trucks. In 2015, the company announced that it was partnering with Novelis and Alcoa to engineer a way to take the aluminum scrap remaining from making the F-150 and turn it into usable aluminum that would be used to build more F-150 trucks.

"We will need more cooperation with the manufacturers to think about building vehicles for recycling," Krawczyk said. "Creating new materials that cannot easily be broken down into recyclables will not be productive and will create problems for all segments of the recycling industry."

Krawczyk stressed that groups such as the Automotive Recyclers Association of New Jersey (ARANJ) will have to ramp up their educational programs to assure that members of the industry are up to date with all the new technology that is in vehicles now and in the future, particularly with the growing market share that electric vehicles will have in the future.

According to Tod Lyons, Interstate Batteries' sustainability program manager, in the U.S., automotive batteries are the number one recycled consumer product with more than 99 percent of all automotive lead batteries being recycled to make new batteries. The lead, plastic and electrolyte from spent batteries can all be recycled in a closed loop program. This means that even a

battery from your grandfather's pick-up truck could be used to power your car today.

"Because lead-acid automotive batteries can be widely reused, Interstate Batteries has created a closed-loop cycle for producing, using and recycling car batteries in the U.S.," Lyons said. Interstate's business model centers on a closed-loop cycle to provide dealers with safe working environments and ensure their environmental impact is minimal. And, since 2016, Interstate has recycled more than 3 billion pounds of scrap lead batteries, making them one of the largest lead battery recyclers in the country.

However, many other countries, particularly China, are focused on trends toward EV batteries. While electric cars do not have the same carbon footprint on the environment as traditional combustion engine vehicles, EV batteries still negatively impact the environment.

"Raw materials for EV batteries are mined in countries like Bolivia and the Democratic Republic of the Congo, but with recycling efforts behind in terms of profitability – only about 5 to 7 percent of lithium batteries are recycled compared to 99 percent of lead acid batteries – there is an increased demand for raw materials mining," Lyons said.

It is estimated that by 2030, there will be 140 million more electric vehicles produced, meaning that nearly 3 million more tons of copper, 1.3 million tons of nickel and 263,000 tons of cobalt will need to be mined in order to meet demand for new car batteries.

"While electric cars are on the rise, there is something to be said for the sustainability of traditional lead-acid

batteries and their ability to continually power our vehicles," Lyons said. "As EV batteries continue to increase in popularity around the world, the U.S. and other countries will have to find a cost effective approach to EV battery recycling in order to make real environmental change."

Automotive recyclers as well as Automotive Recyclers Association and ARANJ are following closely advancements in vehicle technology. From materials like high strength steel to sophisticated ADAS systems, recyclers need to be able to safely and efficiently process the cars of the future.

So how can automotive recyclers stay abreast of the closed-loop recycling initiatives both with new scrap and end-of-life scrap? "Currently the industry is taking great strides to teach its employees on how to handle hybrid and electric batteries, which are appearing more and more in facilities across the country," Krawczyk said. Certification is more important than ever before. In order to truly compete in the replacement parts sector, automotive recyclers as a whole must raise the bar. Industry recognized certification programs, such as the Automotive Recyclers Association's CAR and Gold Seal programs, can help build consistency and standards within the industry.

"Automotive recyclers must be willing to change and adapt to the changes brought on by the auto manufacturers – while competing against the manufacturers for market share in the replacement parts market," Krawczyk said. "Automotive recyclers are a dynamic group, always looking for new part types to recycle and diversifying their business models to changing consumer demands."

Salvaging Millions

by Ron Sturgeon
Autosalvageconsultant.com

Are you a survivor? Or are you going out of business?

The first article in this series listed more than 25 tactics to increase your business success, all of them based on my experience. I started with nothing and didn't attend college, so I know you can achieve maximum success, regardless of your education.

Not all businesses with declining sales will go out of business. But all businesses that go out of business had sales declining. Think about it. Who is most at risk of closing? Yards with annual sales of less than \$500,000 are almost certainly going to close in coming years, and yards from \$500k to \$1m in sales are also at a greater risk.

When your sales are below \$40,000 per month, you are very fragile. All you need to do you is experience one environmental rule to comply with, a windstorm that blows your fence down, a health issue, or the loss of a key employee. Retail and DIY are almost gone, and at the smaller sales volume, you can't buy later model salvage and have a competitive, growing and robust business.

It may be time to think about your future. One thing is almost a certainty – what you have been doing in the past is not going to work in the future. The exception is a very small operation in a small rural area, but even those yards are at a much greater risk of closing.

As I visit smaller yards, I find stubborn operators who are undercapitalized and, frankly, just not up to the

standards or challenges presented. They don't have any employees on pay for performance, and almost always have too many employees and or too much payroll.

The owners don't know what they don't know. If they had been attending recycler conventions and using what they learned, they could have made many of the required changes. Most are not focused on buying the right cars; they just buy the cheap cars. This makes their inventory turns and cash flow too slow.

They refuse to think differently about how they buy and refuse to make better data-driven purchasing decisions. Many of them don't have a SWPPP or environmental controls, and since the government agencies only focus on those that have applied for permits, they are under the radar. And at risk. Yes, it's true. There are a noticeable number of these small operators who don't have any refrigerant machines and who don't make any attempt to capture environmentally sensitive fluids.

Many are operating on land that's worth much more than their business, and they should sell the land (not the business, it's likely worthless) and put the cash to work.

In any case, if your sales match the volumes mentioned, it's time to reconsider the viability of your operation and if called for make an exit plan that maximizes the value of what you have for you and your family.

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.



THE LIGHTWEIGHT ALTERNATIVE
FOR HAULING SCRAP



AXLE CONFIGURATIONS







Doing Our Best to Provide You the Best
www.demco-products.com • 800.543.3626





EPA recognizes GM for Green Power Leadership

General Motors has earned a spot on the U.S. Environmental Protection Agency's National Top 100 List of the largest green power users from the Green Power Partnership. Ranked No. 29, GM is the only automotive company on this list. GM is also No. 6 on the GPP's Top On-Site Generation list and No. 14 on EPA's list of Green Power Partners from the Fortune 500®.

GM's decision to use green power, including landfill gas, wind and solar energy, helps advance the voluntary market for it and the development of green power sources. The company uses nearly 430 million kilowatt-hours of green power annually, which represents more than 10 percent of its U.S. operations' total power needs. According to the EPA, this is equivalent to the annual electricity use of nearly 40,000 average American homes.

"By making the choice to use green power, GM is not only advancing its vision of a future with zero emissions, but also helping set a benchmark for others that using green power is good for the environment and a smart business decision," said Rob Threlkeld, global manager of sustainable energy and supply reliability at GM. "We are grateful to be recognized by the U.S. Environmental Protection Agency for our ongoing progress in this space."

GM is committed to further increasing its renewable energy footprint and finding clean energy solutions near its operations. To date, GM has contracted or invested in a total of 1.71 terawatt hours of clean energy power in North America, equivalent to powering more than 145,000 households. That's more than any other automaker in the region. In 2016 GM committed to becoming 100 percent supplied by renewable energy by 2050 through energy efficiency, sourcing renewable energy, energy storage and leveraging scale and policy to grow the industry. This includes partnerships with utilities and supporting the developments of green tariffs.

The efforts go beyond green power and renewable energy. In 2010, GM committed to reducing its energy and carbon intensity by 20 percent by 2020, and in 2017, had already met and exceeded this goal. Energy efficiency and conservation is a team effort, with each GM facility contributing to energy-related goals.

By moving the needle in the voluntary green power market and engaging in energy efficiency and conservation, GM is helping reduce the negative health impacts of air emissions including those related to ozone, fine particles, acid rain and regional haze.

TradeRev expands market areas

TradeRev, a digital platform that facilitates live dealer-to-dealer vehicle auctions, entered into two new U.S. markets – Kansas City and Minneapolis. A team TradeRev representatives in each market will help dealers fully integrate TradeRev's mobile app, into their dealership's inventory buying and

selling process. Increased dealer demand for TradeRev's platform, expanding seller network and improved customer experience, led to the expansion.

TradeRev is a business unit of global remarketing and technology solutions provider KAR Auction Services Inc.

General Motors and University of Michigan show automated safety features prevent crashes

General Motors partnered with the University of Michigan Transportation Research Institute to understand the real-world effectiveness of some of its available active safety, driver assistance, and advanced headlighting features that may prevent or mitigate different types of crashes. The results show that several of these features are making a statistically significant impact in helping to reduce crashes.

The study leveraged 3.7 million GM vehicles across 20 different models from 2013-2017. Fifteen different systems were evaluated using police report crash databases available to UMTRI from 10 states.

After comparing the crash instances involving vehicles with and without active safety features, the study showed that certain features evaluated had an impact in preventing the types of crashes the features were designed to help prevent or mitigate.

Significant findings include:

- Automatic Emergency Braking (or Forward Automatic Braking) with Forward Collision Alert reduced rear-end striking crashes by 46 percent.

- Lane Keep Assist with Lane Departure Warning reduced lane departure-related crashes by 20 percent.

- Lane Change Alert with Side Blind Zone Alert reduced lane change crashes by 26 percent.

- Rear Vision Camera alone, Rear Park Assist functionality, Rear Cross Traffic Alert (which nearly always includes the two previous backing features) and Reverse Automatic Braking (which includes all the previous backing features) produced, respectively, an estimated 21 percent, 38 percent, 52 percent, and 81 percent reduction in backing crashes.

- IntelliBeam and High-Intensity Discharge headlight features provided 35 percent and 21 percent reductions, respectively, in nighttime crashes, with a 49 percent reduction when offered together.

"This study is groundbreaking in terms of the broad range of vehicles and active safety and headlighting features examined," said GM safety technical fellow, Raymond Kiefer. "The results show that the GM active safety systems evaluated are addressing a wide range of common crashes that cause a staggering amount of injuries, property damage and cost to our customers and society, putting GM well on its way toward a vision of zero crashes."

For the best free exposure possible, participate in this feature favorite!

ARA EQUIPMENT SPOTLIGHT

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

To be listed in the appropriate spotlight, please call 877-777-0043.

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.

UPCOMING TOPICS

NOV	Waste to Fuel
DEC	Eddy Current
JAN	2020 Buyer's Guide
2020	(get listed today!)
FEB	Dust Control



Nationwide Opportunities

DADE Auctions Territory Representative —Nationwide Openings—

Looking for experienced heavy equipment professionals.

Duties:

- You will contact companies and organizations in the waste, salvage, and recycling industries, securing equipment listings for the DADE Auctions website (www.dadeauctions.com).
- Using our automated database, software and hardware, you will ask questions, enter data, and take pictures and video of equipment the client wishes to list on the auction site.

Training:

- We provide a virtual on-boarding orientation and representative portal with ongoing training and field support, as well as an Auctions Representative Manager to consult.

Requirements:

- Possess heavy equipment sales or operation experience, and be knowledgeable about the waste, salvage, and recycling industries and equipment needs.
- Possess basic smartphone and tablet technology skills, ability to navigate in a web browser, and enter data on a website.
- Demonstrated ability to effectively manage a large territory.
- The ability to visit prospective clients in person in various locations with your own reliable transportation.
- Secure listings in person at the client's location.



Inquire at:

DADE Auctions, Inc.
sales@DADEAuctions.com
844-222-2020

Featured Buy Now Listings



Granutech Saturn M-50 Shredder
200 HP motor. Includes conveyance!



Granutech Saturn 62 x 40 Tire Shredder
300 HP motor. Includes conveyance!



2004 Hyundai 2250 HP Motor
Never used! Still in the crate!



Mosley Portable Tin Baler
24" x 32" bales. 40 HP motor.



Fairbanks 70' Truck Scale. Load cells and
digital readout are in good shape.



Williams 60 x104 Mill and Rotor
Includes a spare rotor!

www.DADEAuctions.com 844-222-2020