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Municipalities struggle to contend with increasing waste streams

by MAURA KELLER

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Municipalities continue to struggle with their communities' waste and recycling streams. Their attention is turning toward the health of their landfills as more recyclables are ending up there because of low commodity prices – and tipping prices continue to climb.

According to a recent study by BigRentz, some states are accumulating new landfill waste faster than others. For example, upper Midwestern states have some of the highest accumulation rates, indicating that they don't just contain the most landfill trash, but they're also adding to those landfills faster than other states. Indiana, Michigan, Ohio and Illinois all rank in the top five for new landfill waste per capita, joined this time by Colorado.

The study indicated that Indiana leads the nation with an annual "landfill waste acceptance rate" of 2.35 tons per year per resident. Michigan and Colorado follow with annual new landfill waste equivalent to 2.27 tons and 2.06 tons per resident, respectively.

George Valiotis, chief executive officer of PACE Glass, a NYC-based recycler who is building the world's largest recycling facility said the biggest challenges municipalities face are budget allocations for recycling programs, communication regarding recyclable goods and above all, contamination that make potentially recyclables end up in landfills.

"The last of the three, contamination is an overwhelming cause for concern – particularly since China's recent bans have caused large portions of our country's recyclable waste to be land-filled," Valiotis said. "The major concern here, however, is that time is of serious essence. If we do not invest a portion of our municipal funds and time into seeking a safer solution than landfills and incinerators, we will quickly see the quality of our air, land and overall life in the U.S. dwindle. If not addressed, the effects will quickly be noticed by smaller municipalities and in no time trickle down into larger cities."

According to Michael Allegretti, chief strategy officer at Rubicon, there are a host of issues contributing to the impact on municipal waste and recycling programs, most notably depressed commodity prices. Combine that with decades long increasing contamination rates from single stream recycling and the China National Sword mandates, and the faults in America's current recycling systems are clearly being laid bare.



Indiana, Michigan, Ohio and Illinois all rank in the top five for new landfill waste per capita.

PHOTO BY ROBERT PERNELL | DREAMSTIME

"Here in America, we collectively need to kick our addiction to landfills – we can't bury our waste problems into perpetuity," Allegretti said. "Something needs to change. What we need to be doing as a society is investing in recycling infrastructure and education programs across the country which will result in less waste going to landfills."

Dr. Maria Guron, professor of chemistry at Villanova University, also teaches on plastics and sustainability to non-chemistry majors. Dr. Guron studies the lives of plastics from their creation to their (lengthy) demise from a holistic perspective and says the biggest issue facing municipal recycling programs now is the fallout effect of Chinese policies from 2018 which effectively block the U.S.'s ability to offload recyclables for true reuse, and make it a domestic problem

that the country does not have the infrastructure for.

"Before that time, China took significant amounts of our recycling from the US so that recycling made a profit," Guron said. "Unfortunately, because they have drastically limited their percentage of accepted contaminants, it is virtually impossible for the U.S. to send those goods to China to convert into manufactured goods. Thus, it costs money to recycle as opposed to making a profit. Funds are needed to support recycling as they are no longer able to support themselves from the sale of recycled goods."

Indeed, according to Valiotis, since China's bans, municipal programs are no longer accepting certain types of waste that was once considered recyclable. Landfills are thus filling at a

See STRUGGLE, Page A4

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National non-profit unveils strategy to help U.S. recycling system achieve its full potential

For curbside recycling in the U.S. to deliver its enormous potential economic and environmental benefits, new and substantial action must be taken by all stakeholders, according to The Recycling Partnership's 2020 State of Curbside Recycling Report.

The report finds that only half of Americans have the same level of access to curbside recycling as they do to trash, some who have access do not participate, and not all who participate do so fully. As a result, only 32 percent of what's available to capture in single-family homes in the U.S. is recycled, leaving more than 20 million tons of curbside recyclable materials lost to disposal each year.

The system also faces serious headwinds that are causing many communities to adjust their programs, but the overwhelming majority of communities across the U.S. remain committed to providing household recycling services, just as Americans also continue to value and demand recycling as an essential public service according to The Recycling Partnership's 2019 Earth Day survey.

"It is clear that unless stakeholders from across the value chain align and step up, we will not be able to drive the change necessary to move recycling in the U.S. to the next level," said Keefe Harrison, chief executive officer of The Recycling Partnership. "Every day we hear from citizens, communities, policymakers, corporate leaders, and other NGOs who all want the same thing – a stronger recycling system. It will take bold public-private partnership and leadership to make lasting improvements. Now is the time for action."

The Recycling Partnership's Bridge to Circularity report (released Fall 2019) detailed steps to close the gap between future increased demand for recyclables as manufacturing feedstock and current supply, not just for plastics, but for all materials. The Recycling Partnership's 2020 State of Curbside Recycling report reinforces that call to action, providing a snapshot of the challenges facing the U.S. curbside recycling system and recommending a set of integrated strategies to help it achieve its full potential as Recycling 2.0.

"This is an important point in time to pivot our society's current make-to-waste approach to a more circular economy – one that focuses on everything from smart chemistry and design, production, all the way through to reuse and recycling," said Harrison.

The 2020 State of Curbside Recycling report calls for these clear, integrated strategies:

- Substantially greater support of community recycling programs with capital funding, technical assistance, and efforts to strengthen and grow local political commitment to recycling services.

- New and enhanced state and federal recycling policies.

- Continued and expanded investment in domestic material processing and end markets.

- Citizen and consumer engagement to sustain robust and appropriate recycling behavior.

- Continued innovation in the collection, sorting and general recyclability of materials, including the building of flexibility and resiliency to add new materials into the system.

- Broader stakeholder engagement in achieving all elements of true circularity, in which the fate of all materials is not just intended to be recycled, but that they are designed, collected, and actually turned into something new.

If these strategies are fully implemented, the study's analysis shows that a fully-realized next generation of recycling could reap enormous benefits, including:

- Generating 370,000 full time equivalent jobs

- Reducing U.S. greenhouse gas emissions by 96 million metric tons of carbon dioxide equivalent

- Conserving an annual energy equivalent of 154 million barrels of oil

- Achieving the equivalent of taking over 20 million cars off the streets.

"The state of the planet's health demands dedicated and swift action to protect natural resources and abate climate change," says Harrison. "The Recycling Partnership stands ready to take on this challenge and calls on the many public and private sector stakeholders to join in building a circular economy. Together."



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Struggle

Continued from Page 1

dangerous pace and municipal programs are finding themselves overwhelmed with problems of sustainability.

“Municipalities, in my opinion, need to invite, and invest in relations with recycling companies that have made technology and innovation a part of their brand – which is what Pace Glass Recycling is. A company like Pace Glass that makes it a point to invest in their technology means that more waste can now be recycled, and landfills can be reduced,” Valiotis said.

Industry Initiatives

It’s only safe to assume that as landfill space becomes increasingly limited, the cost of having more garbage stored there will increase. Valiotis said that even worse is the fact that recyclable material that can’t find end markets fills these landfills even quicker.

“However, an increase in landfill tipping fees also means that industries and methods that divert waste from landfills become more favorable,” Valiotis said. “Municipalities may be more keen to invest in communicating the definition of waste that can be recycled. Landfilling recyclable goods is one of the worst things that can be done in the market that we face today. The industry will only see an increase in landfill tipping fees, a decrease in landfill space and the environmental effects are disastrous.”

As landfill space shrinks, Guron said that waste management will have to

shift to processing waste differently. “The most beneficial outcome would be to burn the waste in a waste to energy plant so as to still reap some benefit from the waste stream,” Guron said. “Of course, this does create air pollution but the alternative isn’t sustainable, either. Ideally, we need to work individually to create less waste to go into the waste stream and the governments need to standardize and subsidize better recycling, as well as composting organics.”

Guron stressed that the evolution that needs to happen is that consumers need to produce less waste – and that needs to be incentivized.

“Recycling also may need to go back to being multi-stream to ensure better quality recycled goods, government needs to standardize and subsidize waste programs and we need a viable composting program, as many industrialized nations have,” Guron said.

In addition, a lot of grassroots, community based programs are developing in small municipalities throughout the nation. Valiotis said that programs such as recycling events and community involvement are helpful.

“While feasible in smaller regions, however, how possible is it to implement in larger cities? The safest solution is investment in and/or relationships with technologically driven and advanced recycling companies,” Valiotis said.

Valiotis said that the industry needs to motivate relations with companies that invest in the technology that deals with waste in a safer and more effective manner. A relationship with such a company deals directly with the problems facing municipalities’ increase in landfilled waste.

“Our company takes what was once considered unrecyclable glass, and turns it into a quality product that can then re-enter the market,” Valiotis said. “This end product that Pace Glass produces, is not only part of the solution to landfills, but benefits the economy as a whole—the quality of our recycled end product is not only usable, but favorable in cost for the end-market.”

The Recycling Partnership also is a great organization that is working with communities and municipalities on a local level to help them get a handle on their contamination by auditing recycling contamination at the curbside and helping to educate the public about best in class recycling methods.

“Here at Rubicon, we are putting technology behind education with products like RUBICONView, which helps digitize the data from waste audits, and in turn make that data actionable for cities and municipalities,” Allegretti said. “Every time we read a story about waste disposal companies dumping their recyclable material into landfills, it chips away at the public trust. As an industry, we need to focus not only on education for residents about the proper ways to recycle; but on education for businesses about the how to correctly implement the waste and recycling programs that their communities have adopted.”

Industry experts agreed that the China National Sword policy was a wake-up call for the U.S.. As Allegretti explained, the time has come to build a twenty-first century waste and recycling system that can keep up with the demands of an ever-growing population, and an infrastructure that can be built to ensure that we are never again dependent on exporting our waste.

“We have seen the investment community rally around those companies and organizations that are committed to sustainability,” Allegretti said. “This will only increase as the awareness and impact of recycling – and not recycling – dictate who businesses and consumers will buy goods and services from in the future.”



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Talking Rain joins The Recycling Partnership

Talking Rain Beverage Company, the makers of Sparkling Ice, Sparkling Ice Plus Caffeine and Talking Rain Waters announced that it has joined The Recycling Partnership, an environmental non-profit improving how America recycles and catalyzing a system change from a make-waste economy to a circular economy. Talking Rain's collaboration with The Recycling Partnership is the next step in its commitment to sustainability, and will promote consumer recycling education and increase the availability – and capture of – quality recyclables.

The Recycling Partnership is the only organization in the U.S. that engages the full recycling supply chain, from the corporations that manufacture products and packaging to local governments charged with recycling to industry end-markets, haulers, material recovery facilities and converters. Talking Rain is among a growing list of 46 organizations that fund The Recycling Partnership. Talking Rain now joins other U.S. based companies that are transforming the U.S. recycling system for the good of the economy, communities, and the planet.

“We are delighted to have Talking Rain join The Recycling Partnership to support our mission to lead the U.S. recycling system down a pathway to circularity where recyclability is considered from the design of a product through education and access to recycling at the curb and all the way back to a product being remade into a new one,” said Keefe Harrison,

chief executive officer of The Recycling Partnership. “We are all in this bin together, and the investment by Talking Rain helps us educate Americans about what is and isn't recyclable to help them recycle more, better. Decreasing consumer confusion and increasing access to recycling moves us one giant step closer to creating a system where the use of virgin resources is minimized, and materials are recycled over and over again.”

Collaboration with The Recycling Partnership will spur Talking Rain's sustainability goals, which include educating consumers about the recyclability of its products and sending more quality recyclables back into the circular economy, to utilize as recycled content in its own packaging. Currently, 100 percent of all Talking Rain's packaging is recyclable.

Additionally, all Talking Rain packaging produced in 2020 will be updated to educate consumers on how to recycle. Talking Rain will commit 25 percent of its direct to consumer communications in 2020 to drive awareness around the recyclability of its packaging and how consumers should best recycle it.

In 2019, Talking Rain saved 100,000 lbs. of plastic by making thinner labels on its bottles, which went from 1.5 millimeters to 1.4 millimeter in thickness. The brand also saved 250,000 gallons of water through water reduction efforts at its campus in Preston, Washington by implementing waterless urinals, sensor faucets in bathrooms and a new water main.

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NERC releases MRF Blended Value Report

The Northeast Recycle Council (NERC) has published the third in a series of quarterly reports on the blended value of a ton of materials marketed at MRFs in the 11 state region: Blended Commodity Values in the Northeast – February 2020. This report covers the period October – December 2019. An additional MRF participated in the survey, bringing the number of participating MRFs from around the region to 15. The new addition is the first privately-owned MRF data incorporated into the report.

The latest report reveals some interesting trends:

Cost to process a ton of material through a MRF increased by 5 percent over the three quarters surveyed:

The value of a ton of MRF materials increased slightly between the second and third quarters:

	with Residuals	without Residuals
APR to JUN 2019	\$45.83	\$51.65
JUL to SEP 2019	\$34.85	\$41.55
OCT to DEC 2019	\$34.92	\$42.41

- APR to JUN 2019: \$82
- JUL to SEP 2019: \$83
- OCT to DEC 2019 \$87

Nevertheless, overall there has been a decrease of 24 percent with residuals, 18 percent without residuals.

The survey will be repeated for the quarter January – March 2020, and NERC anticipates expanding the number of MRFs participating in the survey.

Renewance to provide battery recycling to Kore Power

Kore Power, Inc., a developer of high density, high voltage energy storage solutions, announced that it has signed a Memorandum of Understanding to enter into a strategic partnership with Renewance, Inc. to collaborate on the execution of battery recycling projects for Kore Power batteries which have reached their end-of-life.

Renewance has extensive knowledge of regulations related to industrial battery storage, packaging, transportation and recycling. Renewance has also established an extensive network of logistics, field service, and recycling partners who, collectively, create a reliable and efficient means by which KORE Power will be able to transport and recycle lithium-ion batteries that have reached their end-of-life. This alliance will facilitate the proper disposal of Kore Power's Mark 1™ battery cells at their end-of-life and will simultaneously create an opportunity for used battery materials to be reused in new batteries. In addition, Renewance will assist Kore Power in implementing strong and environmentally responsible recycling processes, thereby minimizing Kore Power's end-of-life liabilities.

Food, reusable bags delivered to FeedMore WNY

In support of New York's ban on single-use plastic bags that began March 1, State Department of Environmental Conservation (DEC) Region 9 staff delivered reusable bags and donated food in March, to FeedMore WNY, the agency that recently joined together the Food Bank of WNY and Meals on Wheels for WNY.

The reusable BYOBAGNY (Bring Your Own Bag New York) delivery supports DEC's ongoing campaign to encourage New Yorkers to use reusable bags wherever and whenever

they shop. DEC is currently distributing hundreds of thousands of reusable bags across the state, with a focus on low and moderate income New Yorkers with the help of partner state agencies, Feeding New York State, regional food bank organizations and other stakeholders.

The food was collected as part of DEC's Dr. Martin Luther King Jr. Statewide Food Drive. Region 9 collected 237 pounds of food to benefit FeedMore WNY as part of the multi-month effort. FeedMore WNY assists 129,000 individuals through 300 agen-

cies and programs that include food pantries, soup kitchens, shelters, group homes, snack programs, camps and child and adult day cares throughout Erie, Niagara, Chautauqua and Cattaraugus counties.

DEC will continue to focus its outreach and education efforts to ensure a smooth transition for consumers and affected retailers. Governor Andrew M. Cuomo signed legislation to ban the sale of single-use plastic bags in New York State on Earth Day 2019.

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COVID-19's impact on the waste industry

by MARY DARLOW

mdarlow@americanrecycler.com

New questions have arisen regarding the safe handling of waste that's been contaminated with the 2019 novel coronavirus (COVID-19). It's a valid concern among waste workers but requires fewer guidelines than might be expected.

For the most part, management of waste that is suspected or known to be contaminated with COVID-19 does not require special precautions beyond those already used to protect workers from biological hazards they encounter in the handling of medical solid waste and wastewater management.

Workers and employers should manage solid waste contaminated with COVID-19 as they would other regulated biological medical waste because COVID-19 is not classified as a Category A infectious substance. Category A Infectious Substances present in a form that, when exposure occurs, are capable of causing permanent disability, life threatening or fatal disease in otherwise healthy humans or animals.

Using the typical organization and administrative oversight, safe work practices and personal protective equipment such as puncture-resistant gloves, face shields, masks and eye protection, is said to be sufficient for handling COVID-19.

The Occupational Safety and Health Administration advises that haulers that pick up this contaminated waste should be notified in advance that the haul contains COVID-19. Best waste management practices should avoid taking medical waste to facilities that shred in an open atmosphere prior to treatment to reduce potential worker exposure. The practices state that shredding in an enclosed treatment process is acceptable.

The greater repercussion of this method has more to do with handling



the increased influx of contaminated waste than with the handling procedures themselves.

The Chinese province at the center of the original coronavirus discovery has almost doubled its medical waste handling capacity. This was visibly demonstrated after the world saw images of trash bags piling up around hospitals in that region.

The unexpected outbreak put China's somewhat unsophisticated waste handling skills to an enormous test. An inadequate waste handling capacity in some regions of China, together with hefty disposal fees, helped create an illegal medical waste disposal industry.

As an example of how much the waste capacity could increase, data issued by the Ministry of Ecology and Environment showed that Hubei, where the virus emerged in December, had a medical waste handling capacity of 317.5 tonnes per day by mid February, up from 180 tonnes per day before the virus outbreak.

One final impact of the virus that may actually prove beneficial is the financial aspect. Medical waste handling companies may report a share price rally after the coronavirus outbreak. Their outlook may be boosted by market expectations that regulations could be tightened, as they were in 2003 after the SARS outbreak and due also to the increased tonnage that will be processed.

EGLE offers \$3 million in recycling infrastructure, organics grants

A total of \$3 million is available through the Michigan Department of Environment, Great Lakes, and Energy's (EGLE) Recycling and Organics Infrastructure Grant program for the development of recycling infrastructure or food waste management programs.

Schools and universities, local units of governments, non-profits, tribal governments, health departments, and solid waste/recycling authorities can apply for funding to improve recycling programs that would increase the amount of material collected or processed or to improve the level of participation in recycling programs. Organics management infrastructure grant applications is for projects primarily focused on food waste (not yard

waste) and must result in a finished or partial compost product.

The maximum amount of requested funding for a project is \$1 million. Successful grantees must provide a local match that equals at least 20 percent of the total grant budget. Grant funding is made available through the Renew Michigan Fund. The Request for Proposal and additional information is posted on EGLE's recycling grants web page.

The application deadline is 5 p.m., April 20. Proposals must be submitted electronically in one PDF file that contains the complete grant application to EGLE-RecyclingGrant@Michigan.gov. For more information, contact Erica Richard at 517-284-8337 or RichardE1@Michigan.gov.

EREF elects new leaders

The Environmental Research & Education Foundation (EREF) changed its leadership on their board of directors.

Chairman

Pat Carroll has been president of the Environmental Solutions Group (ESG) since 2010. ESG, whose corporate headquarters is in Chattanooga, Tennessee, is a combination of Heil Environmental, Marathon Equipment Company, 3rd Eye, Soft-Pak Software Solutions, Curotto-Can Company, Parts Central and Bayne. Prior to this role, Carroll was the president of DE-STA-CO (a Dover Company) which is a global company focused on industrial automation components with manufacturing locations in nine different countries in the U.S., Europe, Asia and South America.

Prior to his role at DE-STA-CO, Carroll was with Terex Corporation for five years, four years as president of the Telelect Utilities business and one year in business development at the corporate headquarters. Prior to his role at Terex, he spent 12 years with Ingersoll-Rand in their construction and mining business where he held a number of positions.

Vice Chairman

Ven Poole currently serves on the board of directors of GFL Environmental Inc. Prior to its merger with GFL in 2018, Poole served as chairman and chief executive officer of Waste Industries for 10 years. Prior to becoming chief executive officer, Poole served as vice president, corporate development for seven years, director of support services for five years and director of risk management for six years. Prior to join-

ing Waste Industries, Poole was a senior engineer with Martin Marietta Orlando Aerospace.

Secretary/Treasurer

James Little has been executive vice president – engineering and disposal of Waste Connections since July 2019. From February 2009 to that date, he served as senior vice president – engineering and disposal of Waste Connections. Little served as vice president, engineering of Waste Connections from September 1999 to February 2009. Little held various management positions with Waste Management, Inc. (formerly USA Waste Services, Inc., which acquired Waste Management, Inc. and Chambers Development Co. Inc.) from April 1990 to September 1999, including regional environmental manager and regional landfill manager, and most recently division manager in Ohio, where he was responsible for the operations of 10 operating companies in the Northern Ohio area.

Immediate Past Chair

Jim Dowland is a registered professional engineer and has spent the last 40 years in the solid waste industry, 19 with BFI followed by 18 with Waste Management, Inc. During his last 10 years with Waste Management, Dowland served as corporate vice president of Disposal Operations, retiring from this role in 2018.

Dowland has served on EREF's board of director's for nearly 13 years and during his tenure has chaired the projects committee, which is quite active and serves a critical role that drives EREF's research program.

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Transportation industry is essential, now more than ever

The U.S. Tire Manufacturers Association (USTMA), in partnership with the American Trucking Associations, Auto Care Association, Automotive Oil Change Association, Motor & Equipment Manufacturers Association and Tire Industry Association, urged state and local government leaders to designate the motor vehicle maintenance, repair and service industry as an essential service and critical resources in ensuring the safe and ongoing operations of our transportation sector.

“As our nation enacts emergency measures to protect Americans from the spread of COVID-19 coronavirus, USTMA and our industry partners urge government leaders to consider the critical role that motor vehicle supply and repair facilities play in protecting the safe and efficient operation of the entire transportation sector,” said Anne Forristall Luke, USTMA president and chief executive officer. “Commercial and government vehicle fleets and thousands of medical professionals and first responders depend on our businesses to support their safety and vital transportation needs,” Luke said.

In a letter directed to the National Governors Association, U.S. Conference of Mayors, National League of Cities, and National Association of Counties, the six trade groups affirmed their position stating;

“Essential tasks rely on safe and efficient transportation. Government

vehicle fleets (local, state, and federal) and other essential personnel (doctors, nurses, healthcare provider, grocers etc.) depend on businesses that support the safe operation of the transportation sector. Public and private transportation services are necessary to ensure the public may complete essential trips, including purchasing food and medicine or caring for loved ones. Businesses that provide the support or supplies necessary to operate must therefore also be deemed essential.

Motor vehicle supply and repair facilities provide vehicle and roadside services essential to maintaining critical operations and the flow of commerce. In addition to gas stations, it is imperative that motor vehicle supply, motor vehicle repair and related facilities be encouraged to support the safe and efficient operation of transportation services. Community members providing critical care and services should be assured they won't be impeded by a flat tire or vehicle problems that could be quickly addressed by motor vehicle care professionals. Our industry stands ready to help ensure aid can reach the places it is most needed.”

The groups asked that “state and local policies...take into account the important role of motor vehicle supply and repair facilities and ensure these essential businesses remain available to support the work of other crucial businesses.”

Tire shipments expected to increase in 2020 February

ORIGINAL	2019	2020 Estimated	% Change	Units +/-
Passenger	46.3	46.0	-0.6	-0.3
Light Truck	5.9	5.9	1.0	0.1
Truck	6.5	5.9	-9.4	-0.6
REPLACEMENT				
Passenger	222.6	223.4	0.4	0.8
Light Truck	32.5	32.7	0.3	0.1
Truck	18.9	19.3	2.1	0.4
TOTAL	332.7	333.2	0.1	0.5

ALL SHIPMENTS IN MILLIONS. FIGURES ARE ROUNDED.

The U.S. Tire Manufacturers Association (USTMA) projects 2020 U.S. tire shipments will increase to 333.2 million units compared to 332.7 million units in 2019. Original equipment (OE) passenger tire shipments are expected to decrease by 0.3 million units, while passenger tire replacement

shipments are projected to increase by 0.8 million units compared to 2019. Original equipment and replacement light truck as well as replacement truck tire shipments are all expected to increase, while a decrease is projected for OE truck tires.

National Tire Safety week May 18

The U.S. Tire Manufacturers Association (USTMA) announced it will promote its yearly consumer tire safety awareness campaign, National Tire Safety Week, the week of May 18th. This initiative, “Know Your Roll,” educates motorists about tire care, safety and maintenance, including the potential dangers of unsafe used tires.


“As we embark on this new decade of tire safety, tire manufacturers are working hard to continue creating the smartest and most sustainable technologies that put the safest tires on the road,” said Anne Forristall Luke, president and chief executive officer of USTMA. “National Tire Safety Week continues to educate drivers on the critical role they play in maintaining tire safety and ensures they have all they need to successfully prioritize safety on and off the road.”

USTMA member companies have also been leaders in safety through inno-


vation, investing billions of dollars and countless hours engineering safe, sustainable tires. Today's tires grip the road better, are more fuel efficient and last longer. New designs and materials have enabled continual improvements and breakthroughs like run-flat tires, which function as far as 50 miles after a puncture.

The group is also taking aim at a less well understood risk to consumers – unsafe used tires. Once a tire has been mounted on a rim and installed on a vehicle, it's considered a used tire. While new tires must meet stringent federal safety standards to be sold in the U.S., worn tires can be resold as used with virtually no restrictions in most states. USTMA recommends that a qualified tire service professional inspect a used tire for damage before it is installed on another vehicle to make sure it is ready for the road.

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Carolyn Wiley

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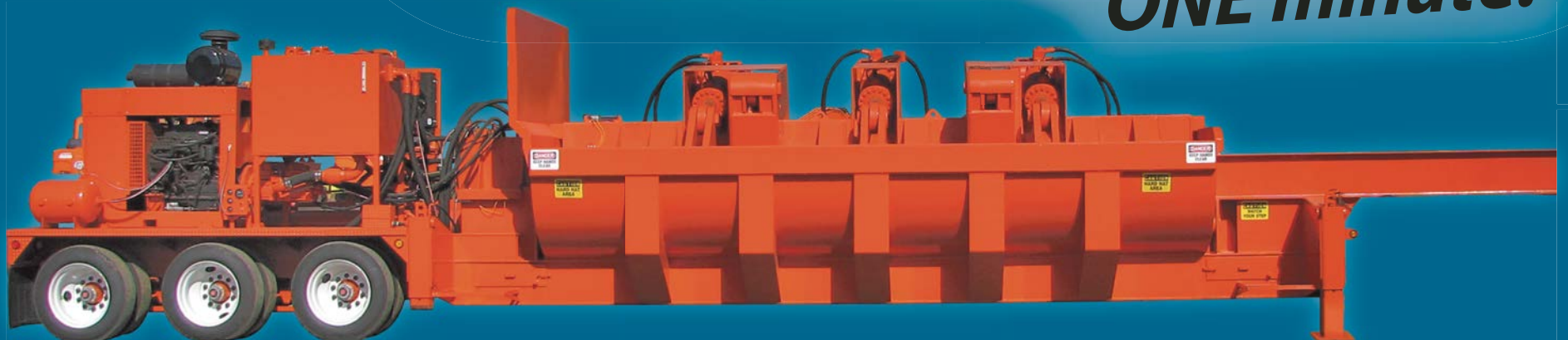


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AUTOMOTIVE

Let's Talk Recalls – Maximizing bounty for auto scrap and shredder recyclers

Contributed by Katie Stark and Paul D'Adamo

pdadamo@coresupply.com

The good news for auto scrap and shredder customers is that they are not encumbered with “parts inventory” issues. Vehicles arrive at your facility and trigger a very systematic process to minimize labor while maximizing profit on the vehicle's journey to the baler or shredder. Our Takata Airbag Recovery Program fits best at the front end of the journey.

The airbag program consists of three steps:

1. Identification
2. Removal
3. Invoicing/packing/shipping

Did you know that our New Mobile Yard Airbag App (YAPP) eliminates all desktop interaction and printing? The YAPP has reduced our process to taking photos and marking the airbag with the last six digits of the VIN. Deployed airbags do not have to be removed, yet you get paid \$15 per picture. The Bounty for Airbags to be removed is \$55 for the driver side and \$60 for the passenger side.

Identification

While we have a list of 22 makes, 144 models and 15 years of coverage (2001 to 2016), vehicles with defective Takata airbags must be identified by VIN. There are several ways we can

help with this. First, we have an API which can be integrated into your front-end vehicle intake process. Second, the mobile YAPP has scanning capabilities. And third, we are working with industry providers to possibly integrate our API into existing systems.

Removal

We understand the need to keep the flow of material moving in a high-volume operation. A quarantine/removal area is established to divert the vehicles with the Takata airbags to an area where they can be handled quickly and efficiently. We estimate that 7 to 8 percent of your vehicle flow might have a Takata. An operation handling 100 whole vehicles per day will need a quarantine area with a capacity for 10 vehicles.

Invoicing/packing/shipping

The cart built into the YAPP allows management and the user to see current quantities and the dollar value at any time. In addition, Users can invoice from within the YAPP to signal RAS to prepare the BOL. RAS supplies all shipping materials; Hazmat label/box, antistatic bag and zip tie. Canadians get reimbursed for hazmat kit purchases. Freight pick up

is arranged and paid for through the RAS Airbag Recovery Program. For high volume operations, we recommend shipping monthly to create a recurring revenue stream and keep the product moving.

Safety is a top priority within the auto recycling industry. You will be happy to hear that since the inception of the RAS Airbag Recovery Program in 2015, we have not been made aware of a single incident when an airbag has deployed. Since 2015, RAS has processed over 500K Takata airbags. One standard operating procedure is worthy of note: Once a vehicle is identified as having a Takata airbag, the vehicle should be placed in the Quarantine area and the battery removed immediately. Airbags can be removed the following morning.

One thing is for sure: Everything keeps changing, and RAS is continually trying to improve the tools we have and introduce new tools when it allows recyclers to #yankthatbag with the most streamlined process possible.

For more information on airbag recalls, call Paul the Recall Guy at 401-458-9080 or send an e-mail to pdadamo@coresupply.com.

Adesa makes leadership appointments

Adesa, a business unit of global vehicle remarketing and technology solutions provider KAR Auction Services d/b/a KAR Global, has named new general managers at 2 of its 74 North American auctions: David Claxton at Adesa Minneapolis and Terry Costner at Adesa Nashville. Additionally, Cheryl Toler returns to Adesa Los Angeles in the auction manager role, and Amanda Brendle takes the helm at Adesa Fresno as auction manager.

Claxton joined the Minneapolis team as general sales manager in 2018. He has more than 40 years of automotive experience. He replaces Jay Fahrendorff, who recently retired.

Costner has more than 35 years of experience in the car business and will work with current general manager Harold Chapman, who is retiring, to transition into the role full time.

Toler joined Adesa Los Angeles in 2002 and in her new position, Toler will report to Adesa Los Angeles general manager Ted Coates and will focus on reconditioning services.

Brendle has been in the car business all her life and has increased her responsibilities over the years, serving as assistant manager, office manager, general sales manager and, most recently, as dealer relations manager.

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ELECTRONICS

EPA recognizes electronics industry leaders for their achievements in recycling

Sprint, headquartered in Overland Park, Kansas, was named one of the 2019 winners of the Environmental Protection Agency's (EPA) Sustainable Materials Management (SMM) Electronics Challenge Awards.

Today's electronics are made from materials that, if not properly managed at the end of their lifetime, may pose a risk to human health and the environment. The winners of the 2019 Electronics Award are being recognized for keeping 194,500 tons of electronics out of landfills by sending them to third-party certified recyclers.

"These companies represent the electronics industry's leaders in sustainable product design and life cycle management," said EPA administrator Andrew Wheeler. "The environmental benefits associated with keeping electronics out of landfills and recycling them for use in new products are enormous. EPA is proud to recognize the inventive and forward thinking achievements of these companies."

The Agency's 2019 Electronics Challenge Gold Tier Awards are going to the following organizations:

- Dell
- LG Electronics USA
- Samsung Electronics
- Sony Electronics
- Sprint
- Staples
- TCL North America
- VIZIO
- Xerox

EPA further recognizes Dell and Samsung Electronics as the SMM Electronics Challenge Champion Award winners for innovation in an environmentally responsible way.

These companies serve as examples in demonstrating environmental, social and economic outcomes for their organizations and the public that go above and beyond the requirements of the Electronics Challenge.

•Dell is receiving the Product Award for developing a visionary closed loop process for recovering rare earth elements from magnets in end-of-life hard disk drives. During the pilot, Dell diverted 660 pounds of magnet material from landfills to create 25,000 hard disk drives.

•Samsung is receiving the Cutting-Edge Award for developing an affordable, upcycled and smartphone-based diagnosis camera to improve eye health care equality in underserved populations. Currently piloted in Vietnam, the camera extends the life of obsolete phones, uses 50 percent recycled content and is designed for easy reuse or recovery.

With an ever-increasing supply of new electronic gadgets, EPA's latest data show that Americans generated 2.84 million tons of waste from consumer electronics goods in 2017 and that 35.9 percent of that waste was recycled. Improved life cycle management of electronics, through source reduction of materials used, increasing reuse, refurbishing, extending the life of products, and recycling of electronics, can reduce the total quantity of waste that needs to be managed domestically and globally. It also creates green jobs, increases the value of American exports, and supports a vibrant American recycling and refurbishing industry.

Wisetek to extend certification to UK, Ireland and Thailand

Wisetek, a global Information technology asset disposition (ITAD), reuse and manufacturing service, and e-Stewards® have reached an agreement to extend their American e-Stewards Certifications to all of Wisetek's facilities worldwide within two years. The additional facilities to be added in that time frame will be in Cork, Ireland; Dublin, Ireland; Reading, UK; and Amphur Sriracha, Thailand.

Wisetek has chosen e-Stewards certification to maintain alignment with their standing goal of providing the most responsible and ethical standard for ITAD services to its many multinational clients. These new global facilities will join Wisetek's existing U.S. e-Stewards Certified sites in Hyattsville, Maryland; Beltsville, Maryland; Milford, Maryland; Sacramento, California and Austin, Texas.

To meet the needs of international clients wishing to expand their e-Stewards Certification footprint, e-Stewards has recently created a new designation – e-Stewards Committed, for existing certified companies that operate in one country but wish to attain global coverage.

E-Stewards will soon release Version 4.0 of its standard. The new version maintains and extends some of the existing requirements while presenting these in a simplified form. E-Stewards 4.0 will require an additional Certification to the ISO 14001 Environmental Management System standard, and as of July, 2022 will also require the world's best data security standard – NAID's AAA Certification. The e-Stewards Standard remains uniquely based on the definitions and trade rules of the Basel Convention.

Over 7.5 million pounds of batteries recycled in 2019 by Call2Recycle in the U.S.

Thanks to consumer's increasing battery recycling habits at retailers and municipalities, more than 7.5 million lbs. of batteries were responsibly recycled in the U.S. in 2019, reported Call2Recycle, Inc., the nation's first and largest consumer battery stewardship organization. The Call2Recycle® program achieved a 5 percent increase for all consumer batteries from 2018, with rechargeable battery collections growing 13 percent. Participating retail sites collected more than 3.3 million lbs. of batteries, an increase of 7 percent from 2018, and municipalities collected more than 1.7 million lbs. of batteries, an increase of 18 percent from 2018. Since the program's inception in 1994, more than 123 million lbs. of batteries have been collected and recycled in the U.S.

"As we celebrated our 25th Anniversary, we have been very encouraged to see battery collections grow, especially consumers recycling lithium-ion batteries, the most common type of rechargeable batteries," said Carl Smith, chief executive officer and president of Call2Recycle, Inc. "Batteries power our lives and lithium-ion batteries, in particular, aren't going away. This year's 36 percent increase in lithium-ion batteries collected is a

positive sign that consumers are becoming more and more aware that the portable cordless devices – from electric toothbrushes, tablets, laptops and smart watches – that we use every day contain batteries that need to be safely and responsibly managed at their end-of life."

Residents of Vermont, the first U.S. state requiring primary battery producers to finance a collection and recycling program for single use batteries, recycled more than 166,000 lbs. of rechargeable and single-use batteries. A 2019 Ipsos poll, conducted on behalf of Call2Recycle, found that awareness of battery recycling increased among Vermont residents. Six in 10 Vermonters believe that single use batteries can be recycled, a 13 point increase from 2015. Since launching its partnership in 2016 with Call2Recycle, Inc. as its appointed stewardship organization, more than 500,000 lbs. of batteries have been collected and recycled in Vermont.

Consumers can participate in the program by bringing their used batteries to a convenient drop-off location. The program network shows 86 percent of residents living within 10 miles of a drop off location.

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ALTERNATIVE ENERGY

Milwaukee to turn old landfill into solar project

Milwaukee, Wisconsin officials shared plans to build the largest solar energy system in the city's history.

The 8 acre project will be located close to General Mitchell International Airport, roughly 10 miles from downtown Milwaukee.

"This project is a real win for Milwaukee, for the planet and for national security," Milwaukee Mayor Tom Barrett said during the announcement at the field's future location.

The city is partnering with We Energies for the solar project — most of the electricity used in the city comes from the electric services company based in Milwaukee.

We Energies created two new projects to help large customers, like the city of Milwaukee, get more of their energy from clean power. The programs were approved by the Public Service Commission of Wisconsin in December 2018.

One of those projects is the new 2.25 megawatt solar energy system in Milwaukee. The system will have over 7,000 solar panels and will be placed on a closed city landfill that isn't useful for other forms of development, according to Barrett.

The solar field is also next to 128th Air Refueling Wing of the Wisconsin Air National Guard, which is stationed at General Mitchell Air National Guard Base. The power of the newly

announced field will also be used to help support the unit in emergencies.

Col. James Locke with the unit said the 128th is extremely pleased to be working with the city.

"Mission assurance, mission readiness only comes when we have energy available to us and this alternative energy project is going to provide just that for us," he said. Locke said in an emergency, the ability to execute a mission is critical.

We Energies will build and maintain the system at no cost to city taxpayers.

Barrett said coastal cities like Milwaukee face threats due to climate change, such as floods and other extreme weather that damage property, supply chains and harm the economy.

In 2009, Barrett established a goal of getting at least 25 percent of Milwaukee's power from renewable energy by 2025. He said his administration is committed to growing the city's economy while protecting the environment.

"This project provides documented progress toward the city's renewable energy goals," Barrett said. "It will be enough electricity to power over 460 homes."

Erick Shambarger, the city's director of environmental sustainability, said they hope to start construction this summer and finish by the end of 2020.

CONSTRUCTION & DEMOLITION

Atlanta earns LEED certification

During the annual Greenbuild International Conference and Expo, the U.S. Green Building Council (USGBC) announced that more than 100 cities and communities have now achieved LEED certification. The City of Atlanta, this year's Greenbuild host city, marked the 100th certification. USGBC launched LEED for Cities and Communities in 2016 as a globally consistent framework for measuring and tracking sustainability at the city and community scale. The rating system tracks progress across key performance indicators, including energy, waste, water, transportation, resilience, health and equity. Atlanta's Mayor Keisha Lance Bottoms and USGBC's president and chief executive officer Mahesh Ramanujam announced the city's certification.

"We have been envisioning a new way forward for the growth of resilient, green, inclusive and smart cities and communities and believe that by focusing on performance we can better understand how our decisions impact the planet and our quality of life," said Ramanujam. "Celebrating this milestone with the City of Atlanta here at Greenbuild is a tremendous honor. Atlanta's work is an inspiration and shows how sustainability can be a tool for addressing some of the challenges residents are facing, while also helping

to reduce carbon, energy and waste, and conserve water. Atlanta and the more than 100 other LEED-certified cities and communities help open the door for new businesses and stimulates a robust green, economy."

Atlanta's Resilience Strategy was a central tenant contributing to its certification and builds on both the challenges and opportunities the city faces. By making resilience a key part of its sustainability strategy, the city is focused on efforts that support residents and address some of the region's more pressing issues. Initiatives include the Atlanta Resilience Equity and Design Collective (RED Lab) partnership with Georgia Tech to help residents use data and technology to solve community issues that contribute to or detract from the livability of their neighborhoods. The EV Rideshare Program provides transportation services to those with low mobility access, including previously incarcerated individuals. Additionally, the city's Clean Energy Plan is intended to move Atlanta to 100 percent clean energy by prioritizing equity and affordable clean energy options. The city has also made impressive strides in reducing energy consumption in buildings through the Atlanta Better Buildings Challenge and reached its 2020 goal of 20 percent reduction ahead of schedule.

DTG Recycle closes acquisition

DTG Recycle, the largest recycler of C&D, industrial and manufacturing waste in the Northwest, acquired Anderson Rock and Demolition Pit, a limited purposes landfill for construction and demolition materials located in Eastern Washington.

The acquisition opportunity was a result of a long term relationship between Dan Guimont, president and founder of DTG Recycle, and Ron Anderson, founder of Anderson Rock and Demolition Pit.

The Anderson Rock and Demolition Pit acquisition marks yet another milestone in DTG's rapid expansion. In 2019, DTG has opened two new material recovery facilities, acquired Recov-

ery 1's material recycling facility in Tacoma, Washington, and now acquired the Anderson Rock and Demolition Pit. Additionally, in 2019, DTG has increased its recycling collection fleet to almost 1,500 roll off and recycling containers. DTG this year also added significant new transportation capabilities with the addition of a fleet of end dump trailers, side dump trailers, and numerous walking floor trailers.

The Anderson Rock and Demolition Pit accepts the following materials: concrete, wood, asphalt, lumber, crushed rock, dirt, brick, metals, glass, rock, roofing material, sheet rock, spent lime, steel, stumps, trees, brush and certain types of contaminated soil.



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PAPER

DS Smith opens Indiana box manufacturing plant

In a single day, DS Smith's new state of the art box manufacturing plant is able to produce more than 17 million square feet of lightweight recyclable packaging – enough to overlay the entire Indianapolis Motor Speedway.

The opening of the corrugated plant heralds the company's latest technology, keeping pace with demands by consumers and retailers for fully recyclable boxes and "fit-to-product" packaging that reduces costs, waste and "packing air" of irregularly shaped items. The facility can produce approximately 30,000 boxes per hour and 2 billion sq.ft. of recyclable packaging per year.

DS Smith views this plant as a job-creating economic catalyst for central Indiana, making the town of Lebanon home to the sophisticated corrugated manufacturing facilities.

"Our new facility in Indiana is unique to the U.S. market," said Miles Roberts, group chief executive officer of DS Smith. "With our innovative packaging design and focus on sustainable materials, we can support our customers' needs in a changing world, no matter how sophisticated their requirements. We look forward to serving many of the global brands we work with in Europe, as well as a range of new customers, with their U.S. based packaging."

Made with the lightest possible materials, a widespread practice by DS Smith in Europe, the Indiana-produced



One of the world's most sophisticated facilities will boost production of lighter-weight and 'fit-to-product' packaging.

boxes will utilize 30 percent to 40 percent less fiber than what is traditionally used in the U.S. The lightweight material is a key differentiator of the products DS Smith will manufacture at the new facility. These next generation boxes will enable brands to meet growing consumer calls for more sustainable packaging and a reduction of shipping costs across the U.S.

The 550,000 sq.ft. packaging facility was designed to model three cutting-edge DS Smith locations in Europe that are highly automated, customer-centric

plants which can accept and process high-volume orders with short lead times – many with same-day turnaround.

"Our new box plant stands apart from the rest in the industry and is equipped with state-of-the-art equipment and machinery that relies on fully automated operations," said Mark Ushpol, managing director of packaging for DS Smith in North America. "Our talent and teams are free to focus on working directly with customers designing custom packaging that reduces system

waste, drives sustainability and provides immediate value to the supply chain."

More about the box plant:

- It can produce more than 17 million sq.ft. of lightweight recyclable packaging a day and 2 billion square feet of recyclable packaging a year.

- Capabilities will be upwards of about 30,000 boxes per hour, or 8 boxes per second.

- An underground scrap conveyer system will drastically reduce dust and noise typically found at conventional box plants.

- It is expected to result in 170 new jobs in Lebanon in engineering, machinery, production, sales and management positions.

The facility continues the DS Smith heritage of commitment to quality and will be BRC-certified. The British Retail Consortium is the leading trade association for the UK food industry and is a globally recognized "gold standard" for food safety. Adoption of the certification in the U.S. is growing and ensures that customer product integrity is maintained during storage and distribution to uphold customer confidence in quality control measures.

The location, a strategic decision based on existing and future customer growth, will serve customers and brands with distribution centers in markets such as, Chicago, Columbus, Cincinnati, St. Louis and Nashville.

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PAPER

AF&PA releases updated paper reports for January 2020

The American Forest & Paper Association released its January 2020 U.S. paper reports.

Containerboard

Total Containerboard production in January increased four percent compared to January 2019.

•January 2020 production of containerboard for export increased 36 percent compared to the same month last year.

•The containerboard operating rate was 95.1 percent, up 3.0 points from January 2019.

•Mill inventories of containerboard at the end of January decreased 31,000 short tons from the previous month, and were up 5,000 short tons compared to January 2019.

Printing-Writing Paper Report

According to the report, total printing-writing paper shipments decreased eight percent in January compared to January 2019. U.S. purchases of total printing-writing papers decreased nine percent in January compared to the same month last year. Total printing-writing paper inventory levels increased three percent when compared to December 2019.

•Uncoated free sheet (UFS) paper shipments decreased nine percent compared to January 2019 while the inventory level increased two percent compared to December 2019. UFS imports decreased 28 percent while exports increased 41 percent in December 2019.

•U.S. purchases of coated free sheet (CFS) papers in January decreased nine percent compared to last January while the inventory level increased four percent compared to December 2019. CFS imports decreased 31 percent while exports increased seven percent in December 2019.

•Coated mechanical (CM) paper shipments decreased 12 percent compared to January 2019 while the inventory level increased nine percent compared to December 2019. CM imports decreased 27 percent while exports increased 22 percent in December 2019.

•U.S. purchases of uncoated mechanical (UM) papers in January decreased seven percent compared to last January while the inventory level increased four percent compared to December 2019. UM imports and exports both decreased compared to

December 2018, down 20 percent and three percent respectively.

Boxboard Report

Total Boxboard production in January decreased two percent compared to January 2019. The boxboard operating rate was 94.8 percent, up 2.3 points from January 2019.

•Solid Bleached Boxboard production in January decreased six percent compared to January 2019.

•Recycled Boxboard production in January decreased two percent compared to January 2019.

•Unbleached Kraft & Gypsum production in January increased two percent compared to January 2019.

U.S. Packaging Papers & Specialty Packaging

Total packaging papers & specialty packaging shipments in January decreased three percent compared to January 2019.

•The operating rate was 87.9 percent, down 2.8 points from January 2019.

•Mill inventories at the end of January decreased 7,000 short tons from the previous month, and were down 6,000 short tons compared to January 2019.

Cascades ranks among the world's top sustainable companies

Toronto based Corporate Knights, renowned for its contribution to promoting clean capitalism, has just released its annual list of the Global 100 Most Sustainable Corporations in the World, following an in-depth analysis of over 7,000 international organizations with revenues exceeding \$1 billion. In keeping with tradition, the announcement was made on the sidelines of World Economic Forum Annual Meeting in Davos, Switzerland. Cascades has ranked 49th among this select group of companies that are committed to best practices in the environmental, social and governance arenas. Adding to this recognition is the fact that Cascades is the only containers and packaging company on the list and is 1 of 12 Canadian businesses.

According to Toby Heaps, chief executive officer and co-founder of Corporate Knights, "companies that put social responsibility and sustainable development at the core of their business model and their thinking endure over time and do better than their competitors. These are the conclusions that can be drawn from the description of companies found on the Global 100 list since 2005."

Alain Lemaire, executive chairman of the board of directors and co-founder of Cascades, said, "I am very pleased with the things we achieve every day and the positive contribution we have made to the industry over the past 55 years. We work upstream to ensure quality input materials from suppliers who share the same values as us. Our dedicated teams are continually improving our processes, and our products are developed with the aim of reducing their environmental footprint to ensure that our customers are satisfied. For us, acting and behaving responsibly is always the right thing to do."

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PLASTICS

Pelletizing and melt delivery lab opened in North Carolina

A ribbon-cutting ceremony by Nordson Corporation marked the startup of an extensively equipped process laboratory to serve the Americas market for pelletizing systems and melt delivery equipment.

Installed at an existing Nordson facility in Hickory, North Carolina, the new laboratory has a pelletizing line with throughput capacity up to 1,000 lbs. per hour.

The line includes a twin screw extruder, BKG pelletizer, Optigon self-cleaning process water and pellet drying system, and jet cleaner for removing polymer residue from die plates. Both underwater and water ring pelletizers are available for testing. Melt delivery components include three HiCon screen changers (back-flush, continuous and discontinuous types), a BlueFlow gear pump, and a HyFlex diverter valve. For evaluating materials to be processed, the facility also provides rheological analysis.

“The new BKG technical center is the latest example of Nordson’s global commitment to support the needs of customers and prospects with local, state-of-the-art laboratories,” said Kevin Tuttle, business director for the Americas. “The move is part of our company’s overall strategy for business growth and our continued investment in the BKG Americas business.”



At the ribbon cutting, L - R: Parke Strong, R&D engineer; Merritt Christian, market development manager; Kevin Tuttle, business director, Americas; Udo Gielen, business development manager; Suzann Smith, OEM sales director.

The laboratory enables customers to see BKG systems in operation for comparison with competing products, evaluate new formulations, carry on application development and train equipment operators.

“The new Nordson BKG laboratory at Hickory enables customers and prospects to do application development and test runs without sacrificing productivity in their own plants,” said Merritt Christian, market development manager. “Use of the laboratory is available on a rental basis, and processors can test new technologies in the strictest confidence. When required, Nordson will sign a non-disclosure agreement.”

WASTE

Maine waste-to-energy facility commits to trucks powered by trash

A grant from the EPA and Maine DEP aids plan

Ecomaine has purchased all-electric waste hauling trucks from the Lion Electric Company. The trucks will be used to replace two diesel-powered vehicles that transport waste material from ecomaine’s waste-to-energy plant to its landfill.

Notably, ecomaine is believed to be the first company in the nation to employ all-electric waste hauling vehicles that are powered by its own waste-to-energy operations. The fuel for these trucks will ultimately be the trash that it collected from its 70 member communities.

“This presents a unique opportunity for ecomaine – and Maine, as a whole – to serve as a real leader in this emerging technology,” said ecomaine chief executive officer Kevin Roche. “The fact that we are using trucks to haul waste that are also powered by waste really closes the loop on the story of Maine’s trash. And since waste-to-energy generates 10 times more electricity than a landfill, our role as both the supplier and the user of this power is magnified even more.”

The purchase of the trucks was made possible in large part by a combined grant from the U.S. Environmental Protection Agency’s Diesel Emissions Reduction Act program and the Maine Department of Environmental Protection. The grant, combined with funds matched by ecomaine, allowed the company to secure two electric trucks from the Lion Electric Company of St. Jerome, Quebec.

Ecomaine estimated that it would save approximately 75 percent on fuel costs over 6 years, when comparing diesel to the amount of electricity it would use from its waste-to-energy plant, in addition to the trucks’ zero-emission feature and fewer mechanical parts to maintain.

The trucks will join ecomaine’s electric cars, also powered by trash, as the company aims to increase public awareness about sustainable strategies for Maine’s waste, including the advantages of electricity produced by waste-to-energy.

Production time for the trucks is expected to be 9 to 10 months, with ecomaine expecting to take delivery of the vehicles near the end of 2020.

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BUSINESS BRIEFS

Tom Caruso retires from KAR Auction Services

■ KAR Auction Services Inc. d/b/a KAR Global announced the retirement of industry and company veteran Tom Caruso. Caruso served as executive vice president and chief client officer for KAR Global. Caruso leaves a legacy of more than 40 years of leadership, dedication and innovation at KAR and across automotive remarketing.

Caruso began his career in 1980 as the fleet manager of the Concord Auto Auction, where he became general manager in 1984. He was instrumental in earning numerous local and national accounts at Concord, which led to its acquisition by Adesa in 1992.

In 1993, Caruso was the architect of Adesa's expansion into the 3 million square feet of former General Motors facility that houses Adesa Boston today. Given the subsequent and rapid growth that Adesa Boston experienced under Caruso's leadership, the company reopened the original Concord location as "Adesa Concord."

Caruso later became executive vice president of Adesa, where he oversaw half of the company's U.S. based operations, before being promoted to chief operating officer of Adesa and then president and chief executive officer of Adesa in 2009.

In 2006, Caruso was awarded the Lifetime Achievement Award from the Massachusetts Independent Auto Dealers Association (MIADA), the organization's highest honor. In 2012, he was inducted into the National Auto Auction Association's (NAAA) Hall of Fame and the National Independent Automobile Dealers Association (NIADA) Ring of Honor.

Caruso was also named Remarketer of the Year at the 2018 Conference of Auto Remarketing. Caruso is a past board member of the National Vehicle Leasing Association and MIADA, and he served as president of the NAAA from 2005 to 2006 before later serving on the NAAA's scholarship committee.

AF&PA elects Mark Sutton as board chair

■ The American Forest & Paper Association (AF&PA) has elected International Paper chairman & chief executive officer Mark Sutton as the new AF&PA board chair and released its 2020 slate of AF&PA board officers. Paper and wood product industry leaders participated in the association's winter board of directors meeting in Washington, D.C.

Sutton became chairman of the International Paper board of directors on January 1, 2015, and chief executive officer on November 1, 2014. Immediately prior to becoming chief executive officer, he served as president and chief operating officer with responsibility for leading the company's global businesses. Sutton has been with the company his entire career, having joined International Paper in 1984, as an engineer at the Pineville, Louisiana mill. Sutton also serves on the board of directors for The Kroger Company. He is a member of the Business Council, the Business Roundtable Board of directors, and the international advisory board of the Moscow School of Management – Skolkovo. He also serves on the board of directors for Memphis Tomorrow and the board of governors for New Memphis Institute.

The additional elected officers are: Michael Doss, president & chief executive officer, Graphic Packaging International, Inc. (first vice chair) and Christian Fischer, president & chief executive officer, Georgia-Pacific LLC (second vice chair). Pete Watson, president and chief executive officer, Greif, Inc. and 2019 AF&PA board chair, will serve as immediate past chair.

Also beginning a new term as an AF&PA board member in 2020 is Michael Haws, president and chief executive officer, Sappi North America.

My dog used to chase people on a bike a lot. It got so bad, finally I had to take his bike away.

Novelis names Molina chief procurement officer

■ Novelis Inc., a leader in aluminum rolling and recycling, announced Roxana Molina as senior vice president and chief procurement officer. Molina will lead the company's global metal and non-metal procurement programs. Based at Novelis' global headquarters in Atlanta, she will report to president and chief executive officer Steve Fisher and serve on the executive committee.

Molina brings more than 30 years of global procurement experience to Novelis, spanning a diverse range of roles. During her 25 year career at Ford Motor Company, she served in several purchasing leadership positions in Europe, North America and South America.

She most recently served as global purchasing director of engine and powertrain installations at Ford. In this position, she directed a team of 200 professionals based in the U.S., Mexico, China, India, Brazil and United Kingdom. Among her many accomplishments at Ford, Molina helped transform the automaker's South America purchasing organization, leading cross-functional programs that increased vehicle output and reduced supplier-related production losses.

Molina replaces former chief procurement officer Nick Madden, who announced his retirement in 2019.

Encina promotes Badiola to senior VP of engineering

■ Encina Development Group, LLC (Encina), a company that processes plastic waste to create renewable chemicals and renewable fuels, has promoted Carlo Badiola to senior vice president of engineering and technology. In his expanded role, Badiola will lead Encina's team in engineering design, technology development and implementation, operations and maintenance, and continuous asset value improvement.

Badiola joined Encina in 2017 as director of technology and engineering, and quickly rose to senior management positions.

Badiola previously served as a technical expert for the ExxonMobil Corporation with a focus on pyrolysis steam cracking, field operations, and commodity product optimization. He provided leadership to commercialize novel technology concepts into ExxonMobil's pyrolysis steam cracking fleet. His work optimized bottom-line results in chemical processing facilities through improved fleet availability and enhanced performance.

Badiola holds B.S. degrees in both Mechanical and Chemical Engineering as well as an M.S. degree in Chemical Engineering, all from the New Jersey Institute of Technology. He has also completed extensive prior research in the areas of high temperature combustion, metallurgy and material characterization. He has authored several publications related to combustion science and material synthesis.

Joseph Spadafore resigns from Extreme Biodiesel

■ Extreme Biodiesel, Inc. has accepted the resignation of Joseph Spadafore who is to be relieved of all duties effective immediately with no further involvement with the company in any capacity. Vinnie Angelos is now the chief executive officer, president and a member of the board of directors of the company. Vic Devlaeminck has accepted the positions of chief financial officer and secretary and member of the board of directors of the company.

DeFife to lead foundation's executive board

■ Scott DeFife, president of the Glass Packaging Institute (GPI), was named president of the Glass Recycling Foundation's (GRF) executive board. GRF's vision is to increase recycling through sustainability education and best practices. Jennifer Cumbee of Ardagh Group was also named the newest member of the GRF board. DeFife succeeds Lynn Bragg as board president, and joins Ron Holmes of Diageo and Laura Hennemann of Strategic Materials as officers of GRF's executive board.

DeFife takes the helm as board president just as GRF has received the foundation's first \$50,000 to its endowment. GPI member O-I Glass and alcoholic beverage producer Diageo each made a \$25,000 donation to the fund.

AutoVIN names new VP of Canadian operations

■ AutoVIN, a business unit of global vehicle remarketing and technology solutions provider KAR Auction Services Inc., d/b/a KAR Global, has promoted Gilles Pellerin to vice president of Canadian operations. Pellerin's nearly 20 years of automotive inspection experience will help further AutoVIN's increased focus on creating a best-in-class customer experience.

In his new role, Pellerin will continue to lead Canadian operations and will have an increased focus on strategic initiatives and continuous process improvement for the company. Pellerin has worked in the automotive industry his entire career, beginning as a mechanic and later owning his own body shop. Almost 20 years ago, Pellerin joined Quadrex, which was sold to DataScan in 2006, and the combined company was acquired by AutoVIN in 2015. Pellerin was instrumental in facilitating a smooth merger between AutoVIN and DataScan's inspection business.

Two hunters were out in the woods when one of them collapsed. He wasn't breathing and his eyes were glazed. The other guy called 911 on his cell.

"I think my friend is dead!" he yelled. "What can I do?"

The operator said, "Calm down. First, let's make sure he's dead."

There's a silence, then a loud gunshot. Back on the phone, the guy said, "Okay, now what?"

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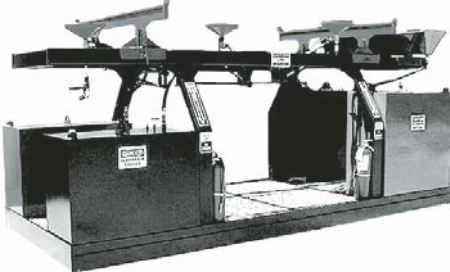
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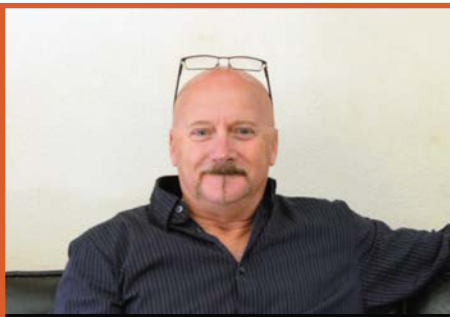
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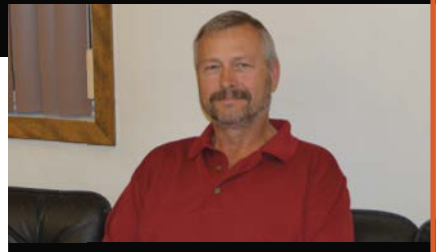
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Safety and fire planning for metal recyclers

by MAURA KELLER

mkeller@americanrecycler.com

The metal recycling industry is challenging – especially in the area of safety and fire prevention. Take the recent large fire at the Northern Metals Recycling plant in Becker, Minnesota, which burned for several days before being extinguished. The fire sent billowing plumes of smoke into the air for days causing the Minnesota Pollution Control Agency to “monitor the ambient air for particulate matter,” at four locations near the plant.

While the cause of the fire at the Becker metal recycling plant is still under investigation, a week before the Becker fire erupted, fire inspectors cited Northern Metal’s facility in north Minneapolis for a variety of code violations related to its outdoor storage practices.

The code violations at Northern Metal’s facility in Minneapolis include towering piles of metal, lack of an emergency response and fire safety plan, storing combustibles under high-voltage transmission lines, and not having proper fire lanes cleared and marked, among other things.

In addition to fire prevention being top of mind for metal recyclers and others within the recycling industry, Dominic Spadafore, associate vice president at Hoefler Wysocki Architecture said the latest safety practices have expanded beyond sharp objects and large machinery.

“We’ve recognized pollution, hazards from the processing of materials, and the negative effects of contami-



Smoke from this fire in Delta, Ohio in March 2020 could be seen as far away as Napoleon, a city approximately 14 miles away. This was the second fire at the MetalX facility in the past six months.

nants on human and environmental health,” Spadafore said. For example, due to off-gassing and airborne pollutants, special attention should also be given to ventilation techniques, any prevailing winds, as well as down-wind environments. This is especially important in the case of a fire.

As part of this initiative, captive air ventilation and wind stream analysis are an increasing part of a lot of recycling plant designs.

“Wastewater capture and pre-processing also are crucial features that ensure water is treated before reaching sanitary sewer systems,” Spadafore said. “Significant progress is also being made with safety features on mecha-

nized sorting machines. These provide much higher productivity and reduce accidents for recycling facilities looking to further mitigate material safety issues.”

Mistakes to Avoid

When modifying an existing metals recycling facility or building new, infrastructure capacity is not always reconciled with expected growth of the recycling center and the increased volume of materials processed. This can lead to fire code and other safety violations as Spadafore explained, given the increased use of recycling centers and the updated technologies within the centers, the infrastructure is often overlooked. For example, heightened cleaning requirements use

more water, which generates more wastewater – and many sewer systems are not properly equipped for this influx. This can limit the scope of work for operations at the center.

Secondly, adding more mechanized separation equipment and processing lines creates more opportunity for human contact with automated equipment.

“This is inherently dangerous since the processes often require human-to-machine interaction. Supplemental training, greater access to components, and more structure are all ways to increase safety,” Spadafore said.

When it comes to fire safety, metal recycling plants operate under a particularly

precarious set of circumstances. According to DustEx Research from September 2016 to August 2017 there were 271 waste and recycling facility fire incidents in North America.

With metal recycling, titanium, magnesium and other precious metals are being processed which can pose a combustible dust hazard.

In addition, large duct systems can accumulate flammable dust. What’s more, electrical systems have to be specially designed to support the heavy loads typically introduced by commercial grade equipment. And as equipment is changed or added to over time within a metal recycling plant, the demands on the electrical service can change causing increased stress on systems, which can lead to failure.

“There can also be other hazards in the material stream that pose a safety risks to individuals as well as the entire facility, such as propane tanks and batteries,” said Chris Wirth, vice president of marketing for AMP Robotics. Lithium batteries are a particularly dangerous safety hazard at materials recovery facilities (MRFs) and can cause fires. The increased amount of inventory that many plants may be experiencing, as a result of China’s waste and recycling restrictions also contribute to the issue.

Another area of concern of fire hazard for metal recycling facilities can be in the way that supplies and goods are stored. Many cleaning agents and solvents can spontaneously ignite if stored

See SAFETY, Page B2

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Ball Corporation achieves sustainability certification

Ball Corporation has earned the Aluminium Stewardship Initiative (ASI) certification for all 23 of its Europe, Middle East and Africa (EMEA) beverage can plants. This accomplishment is a major sustainability milestone for the company and Ball is the first beverage can manufacturer to meet ASI's environmental, social and governance principles.

The certification accompanies a commitment to significant carbon reductions by Ball, which is now covering all of its operations in the European Union, Serbia and the UK with renewable energy. Ball previously announced agreements for 100 percent renewable energy covering all of its North America operations by 2021.

"We're extremely proud to be the first aluminum beverage

can manufacturer to achieve ASI certification," said Ron Lewis, president, Ball Beverage Packaging, EMEA. "With their infinite recyclability, aluminum cans are the fastest growing beverage packaging type in Europe. As consumers seek more environmentally friendly products, they can have confidence in aluminum's strong sustainability credentials such as responsible sourcing. The certification, combined with our renewable energy investments, demonstrates Ball's commitment to a low-carbon, sustainable economy."

ASI is a multi-stakeholder initiative that provides assurance of responsible production, sourcing and stewardship of aluminum throughout its value chain. As consumers demand greater sustainability across packaged goods, the Aluminium

Stewardship Initiative's scheme aims to do for aluminum what the Forestry Stewardship Council (FSC) did for paper and wood, making sustainability performance a mainstream, visible issue.

Ball has achieved both ASI's Performance, and Chain of Custody (CoC) Standard certifications.

The ASI Performance Standard is a measure of how much effort Ball is making across its plants to assess, manage and disclose its environmental, social and governance impacts. These include issues such as life-cycle thinking, recycling, greenhouse gas emissions, water and waste management, biodiversity, business integrity and the human rights of both workers and local communities.

The ASI CoC Standard sets out requirements for the cre-



PHOTO COURTESY OF BALL CORPORATION

ation of a chain of custody for material that is produced and processed through the value chain. In Ball's case, it links verified practices – certified under the ASI Performance Standard – from mining and remelting to casting, rolling, can manufacturing and filling.

With 75 percent of aluminum ever produced still in use around the world, the metal has a vital role to play in creat-

ing a truly circular economy. Ball is taking a lead on industry efforts to significantly increase the European recycling rate of aluminum beverage cans, currently at 75 percent. Recycling aluminum saves 95 percent of the energy required for the production of virgin aluminum, and so helps the global community to meet urgent carbon reduction targets.

Safety

■Continued from Page B1

incorrectly. And storage areas can be inundated with all types of materials in some instances that present issues if piled around outlets or electrical switches.

To prevent these types of hazards experts typically recommend a formal risk management survey of the business

be secured. A formal analysis can provide the metal recycling plant owner with an action plan that not only helps mitigate the risks that result in real property and financial business losses but also provides owners with the resources to efficiently respond to disasters when they occur. Fire and ventilation service companies, fire departments, as well as insurance providers, can provide assessments that can identify potential fire hazards in a facility.

The Role of Technology

According to Tom West, strategic relationships manager, MakuSafe, a safety data and analytics company, like most industrial environments, the safety and wellbeing of workers is paramount in today's world. Common issues in safety and fire prevention are, of course, found in recycling environments.

"There is significant value in first-hand reports from workers to gain insight into what they are experiencing in their jobs. Whether they're referred to as near miss reports, good catches or front line observations and suggestions, most leaders seem to agree that they don't receive nearly enough of this kind of insight regardless of the programs or incentives they put in place," West said.

MakuSafe has developed wearable technology and IoT sensors that are capable of gathering data on ever changing environmental conditions around a worker, which are useful to industrial hygiene.

"Doing this today, and in real time, is a game changer," West said. "By harnessing the power of cloud computing and machine learning, trends to potential hazards can now be uncovered and preventative action can be taken by leaders to mitigate risk."

West stressed that increased automation and connected factory systems are increasingly prevalent in the move toward industry 4.0 initiatives – all of which have worker and environmental safety in mind.

Specific to safety, there are a multitude of environment, health and safety systems in the marketplace. Some tools may even offer analytics capabilities. As West explained, the challenges for many metal recyclers may exist in two essential considerations: First, there is a need to shift from traditional measurements of incidents, or things that have already happened,

to a proactive and preventative approach.

"Access to leading indicators of risk and hazards is often a difficult effort requiring large investment or substantial time to build," West said. Second is that in order to take full advantage of capabilities offered by some tools, mining existing data from legacy systems is a big task that requires cooperation cross functionally, and still may not provide valuable insight.

"The benefits of deploying wearables using sensors to gather data, is real time access to valuable data easily and economically," West said.

Secondly, robotics and artificial intelligence are examples of technologies with great potential to mitigate safety issues commonly found in recycling plants. As Wirth explained, they can replace some of the more dangerous jobs, like sorting, in the recycling field. For example, AMP Robotics uses AI-guided robotics to process high volumes of recyclables, while preventing material contamination from getting into commodity bales for resale. All of these innovative techniques can further streamline the environs of a recycling plant and offset the chance of fire-related issues.

Again, regardless of industry or environment, West said we will likely see increasing importance placed on a proactive and preventative approach to safety and fire prevention.

"The need for meaningful data which can provide insight and evidence will grow, but so will the need for access to such data in an easy and economical way," West said. "Fostering concern for worker health and safety, creating more effective safety cultures, and demonstrating commitment to sending everyone home safely at the end of the day are in everyone's best interests."

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Arbitration decision made for Novelis

Novelis Inc., a leader in aluminum rolling and recycling, announced that the arbitrator assigned to resolve its dispute with the U.S. Department of Justice (DOJ) ruled that aluminum and steel are not in the same relevant product market for automotive body sheet under antitrust laws. As part of its agreement with the DOJ, Novelis must divest Aleris' Lewisport, Kentucky, plant. However, Novelis can close the acquisition prior to divesting those assets once it obtains European Commission (EC) approval of the buyer for Aleris' plant in Duffel, Belgium.

"This decision ignores the reality of the automotive body sheet market and the competition we have faced against steel for years. Aluminum remains the material of choice for our customers, and we are going to continue to provide them with the innovative, lightweight and sustainable solutions they demand," said Steve Fisher, president and chief executive officer, Novelis Inc. "We are moving forward with the acquisition of Aleris to realize the many benefits this transaction will bring to our employees, customers and the aluminum industry as a whole."

Novelis will now work to divest Aleris' North American automotive business, including the Lewisport, Kentucky, plant, but can close the acquisition prior to divesting those assets.

In order to close its acquisition of Aleris, Novelis must receive EC approval of the buyer of Aleris' Duffel plant. Once approval is received, Novelis will close the transaction.

GFG Alliance port to be used for ship scrapping



HMAS Success arrives at Joint Base Pearl Harbor Hickam in 2018.

U.S. NAVY PHOTO BY MASS COMMUNICATION SPECIALIST 1ST CLASS HOLLY L. HERLINE

SIMEC Mining is an arm of the GFG Alliance that bought the Whyalla Steelworks in South Australia along with its associated mines and is now pushing ahead with plans for the new enterprise to deconstruct, scrap and recycle (DSR) ships.

SIMEC Mining executive managing director Matt Reed said the Whyalla Port was the only facility in Australia with the capacity for larger vessels and this was an ideal opportunity to increase third party usage.

"This is the only facility in Australia with the capacity to handle vessels over 200 metres in length, so we hope it presents a genuine opportunity for ongoing DSR operations," Reed said.

"We've put a lot of work into attracting third parties to use our facility, and have already conducted a number of successful trials with a variety of cargoes, making use of our new mobile harbor crane."

Reed said that this process could also align with GFG Alliance's broader strategy – creating scrap that can be recycled through the Whyalla Steelworks or GFG's other scrap businesses.

"This work will utilize local maritime services and other contractor services, as well as presenting an opportunity for greater scope should we secure more DSR work through the Whyalla Port in the future," Reed said.

The company has teamed up with Adelaide-headquartered McMahon Services and project manager Andrew Levett is now preparing the port slipway for the arrival of the first ship, the ex-HMAS Success.

HMAS Success was the Royal Australian Navy's longest serving ship, decommissioned in 2019 after 33 years of service.

Nucor elects Leon Topalian to the board

Nucor Corporation announced that its board of directors had elected Leon J. Topalian as a director and John H. Walker to serve as non-executive chairman of the board of directors. Topalian is the president and chief operating officer of Nucor and became the chief executive officer of Nucor on January 1, 2020. Walker, who has more than 35 years of experience in metal related manufacturing and fabricating industries, has served as a member of Nucor's board of directors since 2008.

Topalian served as an executive vice president of Nucor from 2017 to 2019 and as a vice president of Nucor from 2013 to 2017. He has been employed by Nucor in various capacities since 1996, including serving as general manager at two of Nucor's facilities, in Arkansas and Illinois, as well as a melting and casting manager, an operations manager and a cold mill production supervisor.

Walker served as non-executive chairman of Global Brass and Copper Holdings, Inc. from 2014 to 2019, was executive chairman of Global Brass and Copper from 2013 to 2014 and was chief executive officer of Global Brass and Copper from 2007 to 2014. Prior to joining Global Brass and Copper, Walker was president and chief executive officer of The Boler Company, chief executive officer, president and chief operating officer of Weirton Steel Corporation.




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$262.00	256.00	260.00	274.00	297.00
#1 Bundles	per gross ton	256.00	240.00	258.00	259.00	292.00
Plate and Structural	per gross ton	253.00	231.00	250.00	251.00	281.00
#1 & 2 Mixed Steel	per gross ton	182.00	215.00	225.00	229.00	267.00
Shredder Bundles (tin)	per gross ton	124.00	130.00	160.00	137.00	149.00
Crushed Auto Bodies	per gross ton	124.00	130.00	160.00	137.00	149.00
Steel Turnings	per gross ton	82.00	80.00	85.00	135.00	156.00
#1 Copper	per pound	2.35	2.35	2.33	2.29	2.31
#2 Copper	per pound	2.24	2.22	2.21	2.19	2.15
Aluminum Cans	per pound	.54	.55	.50	.51	.52
Auto Radiators	per pound	1.36	1.20	1.39	1.51	1.45
Aluminum Core Radiators	per pound	.52	.45	.39	.42	.42
Heater Cores	per pound	1.02	1.01	1.02	1.03	1.10
Stainless Steel	per pound	.54	.53	.48	.47	.53

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

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EQUIPMENT SPOTLIGHT

Magnets

by MARY M. THORNTON

maryt@americanrecycler.com

Magnets are used in a variety of ways in many metal recycling operations. Product types vary, depending on the type of processing involved, but optimal recovery is always the ultimate goal. Product configurations vary as well, and it is important to review all options available, so that the right magnet is paired with the task at hand.

Bunting's patented SSSC (Stainless Steel Separation Conveyor) uses a patented magnetic circuit design of high intensity neodymium magnets to maximize stainless steel recovery and removal in applications such as general recycling, auto shredding and wire chopping streams. The SSSC allows for recovery of up to 98 percent of small and mid-fraction 300 series stainless steel and up to 94 percent of large fraction stainless steel from ASR zurik lines. The SSSC provides maximum removal of stainless steel and ferrous dust from wire fraction and the purest zurik, maximizing scrap metal recovery profitability.

"The SSSC is the only product available in the modern recycling market that achieves such high stainless steel recovery levels. Bunting's on-site testing facilities allow us to test how your material interacts with the SSSC in real time, to provide you with real results. We offer extensive custom design options and our engineers will work with you to deliver the optimum piece of equipment for your facility," said Mike Wilks, global marketing director.



Bunting

He added, "There are multiple SSSC features designed to maximize separation efficiency and streamline operations. It is equipped with 8" and 12" diameter patented high intensity neo magnetic circuit head pulleys, capable of holding all sizes of 300 series stainless steel, as well as VFD controllers operating between 30 and 120 fpm to deliver effective separation. General capacities run about 1,000 lb./hr./ft. width on small fraction, 1,500 lb./hr./ft. on mid-fraction, and 2,000 lb./hr./ft. on large fraction. Optional features for the SSSC include a patented air knife, discharge hood, and vibratory feeder. Generally, when recycling, product purity directly correlates to profitability and higher purity product results in significantly greater profit. Product that is excessively contaminated can sometimes result in no profit at all. To maximize your purity and profitability, contact Bunting today."

"At Moley Magnetics we build, sell and service magnets for the wide

range of materials that arrive daily in scrap yards. The scrap and demolition industries have many unique and demanding applications for magnet systems. These magnets sweep, sort, separate, load and unload every day. The demand is for a magnet system that is durable and dependable. Magnet systems are a crucial part of most ferrous recycling operations and so, the purchase and maintenance of magnet systems is a major focus. We offer a variety of magnet systems designed for top operational efficiency and lasting durability. These magnets systems operate on 230 volts DC, 12 volts and 24 volts and systems can be powered by hydraulic driven generators or batteries. Our magnet sizes available range for 18" up to 72" in diameter," Jeff Seavers, outside sales manager, stated.

"With the ever-increasing trend in magnet system operation tracking, owners can choose the Moley MagStar hydraulic generator system with self-diagnosing fault. Through the HDMI, the operator is notified in the event of a shorted magnet cable or a blown fuse. With the use of the MagStar clients have a safe, cost effective and easily maintained generator and controller as part of the magnet operation. The product is available in sizes from 9kW to 30kW," Seavers said.

Industrial Magnetics and Javelin supply products for the removal, recovery, and separation of ferrous metals, nonferrous metals, and certain grades of stainless steel. Equipment is available in a range of sizes to fit the footprint and capacity requirements for any user. Custom sizes and other features are available upon request. "In the scrap industry, customers use our drum magnets, magnetic pulleys,

See MAGNETS, Page B7



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February steel import permit applications down from 2019

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of February totaled 1,823,000 net tons (NT). This was a 47.5 percent decrease from the 3,470,000 permit tons recorded in January and a 41.8 percent decrease from the January preliminary imports total of 3,135,000.

Import permit tonnage for finished steel in February was 1,358,000, down 16.8 percent from the preliminary imports total of 1,633,000 in January. For the first two months of 2020 (including February SIMA permits and January preliminary imports), total and finished steel imports were 4,958,000 NT and 2,991,000 NT, down 16.1 percent and 28.7 percent, respectively, from the same period in 2019. The estimated finished steel import market share in February was 16 percent and is 16 percent year-to-date (YTD).

Finished steel imports with large increases in February permits vs. the January preliminary imports included heavy structural shapes (up 45 percent) and tin plate (up 20 percent). Products with significant year-to-date (YTD) increases vs. the same period in 2019 include tin free steel (up 69 percent) and mechanical tubing (up 11 percent).

In February, the largest finished steel import permit applications for offshore countries were for South Korea (155,000 NT, down 15 percent from January preliminary), Turkey (89,000 NT, up 75 percent), Japan (75,000 NT, down 2 percent), Germany (51,000 NT, up 5 percent) and Taiwan (43,000 NT, up 4 percent). Through the first two months of 2020, the largest offshore suppliers were South Korea (337,000 NT, down 39 percent from the same period last year), Japan (151,000 NT, down 34 percent) and Turkey (139,000 NT, up 39 percent).

January steel shipments up 5.6 percent

The American Iron and Steel Institute (AISI) reported that for the month of January 2020, U.S. steel mills shipped 8,535,755 net tons, a 6.4 percent increase from the 8,021,250 net tons shipped in the previous month, December 2019, and a 5.6 percent increase from the 8,079,757 net tons

shipped in January 2019.

A comparison of January shipments to the previous month of December shows the following changes: hot dipped galvanized sheet and strip, up 13 percent, cold rolled sheet, up 12 percent and hot rolled sheets, up 6 percent.

Steel imports down 10 percent in January 2020

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)

	JAN 2020*	DEC 2019	2020 YTD (1 month)	2019 YTD (1 month)	% Change 2019 Annual vs. 2018
SOUTH KOREA	182	168	182	361	-49.6%
BRAZIL	88	13	88	129	-32.1%
JAPAN	76	67	76	106	-28.3%
SPAIN	55	31	55	43	27.8%
TURKEY	51	7	51	66	-23.1%
GERMANY	48	78	48	134	-63.9%
TAIWAN	41	31	41	101	-59.1%
AUSTRIA	34	13	34	35	-1.5%
All Others	1,058	948	1,058	1,477	-28.3%
TOTAL	1,633	1,357	1,633	2,451	-33.4%

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 3,135,000 net tons (NT) of steel in January 2020, including 1,633,000 NT of finished steel (down 9.9 percent and 33.4 percent, respectively, vs. January 2019). Total and finished steel imports are up 97.7 percent and 20.4 percent, respectively, vs. the prior month, December 2019. Finished steel import market share was an estimated 17 percent in January 2020.

Key finished steel products with a significant import increase in January compared to December are reinforcing

bars (up 134 percent), sheet and strip all other metallic coatings (up 126 percent), heavy structural shapes (up 98 percent), wire rods (up 66 percent), sheets and strip galvanized hot dipped (up 56 percent), mechanical tubing (up 43 percent), wire drawn (up 33 percent) and standard pipe (up 13 percent).

In January the largest volumes of finished steel imports from offshore were from South Korea (182,000 NT, up 8 percent from December final), Brazil (88,000 NT, up 579 percent), Japan (76,000 NT, up 14 percent), Spain (55,000 NT, up 79 percent) and Turkey (51,000 NT, up 606 percent).

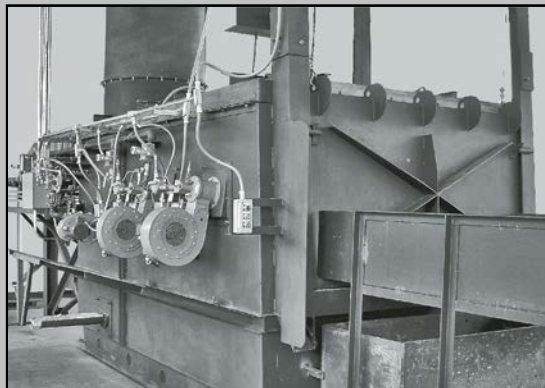
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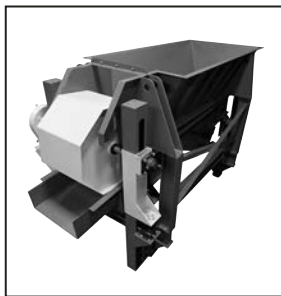


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AZR restarts zinc recycling

American Zinc Recycling LLC (AZR), a provider of environmental services to the U.S. steel industry, has restarted production at its updated facility in Rutherford County, North Carolina. The facility, which is designed to produce special high grade (SHG) zinc using recycled steel mill dust, has officially restarted and is producing SHG grade zinc metal products. It is expected to produce 155,000 tons of SHG zinc annually.

American Zinc Recycling Corp. (AZR) takes zinc-bearing steel mill dust, a hazardous waste that would otherwise be disposed of in landfills, and recycles it using their waelz kiln technology into Waelz Oxide (WOX), a zinc-based feed that it uses to produce zinc metal at the Rutherford County plant. This year alone, AZR will recycle more than 500,000 tons of dust across its four recycling facilities. Coupled with the work of subsidiary INMETCO, a recycler of stainless steel dust and household batteries, AZR is the largest hazardous waste recycler in the U.S.

AZR re-engineered the Rutherford County plant, which had been idled since early 2016, with upgrades to its best-in-class solvent extraction and metals refining technology. After an initial restart in April of 2019, the Rutherford County facility experienced an accidental fire that caused damage to one area of production. The cause of this fire was thoroughly investigated and as a result, modifications were made in the plant design prior to restart.

AZR's Rutherford County plant will extend the recycling value chain by refining the WOX into SHG zinc, which is used in common products including galvanizing steel for automobiles, various infrastructure applications, die cast components for appliances and toys. Zinc is also added to soil, vitamin supplements and sunscreen for its health improvement properties. The Rutherford County facility is the only plant in the Western World that produces zinc solely from recycled sources.

Chief executive officer Gibson of AISI takes retirement

The American Iron and Steel Institute (AISI) announced that Thomas J. Gibson, president and chief executive officer, will retire in the fall of this year. A search for his successor has begun.

Gibson has led AISI since September 2008. Under his leadership, the Institute successfully advocated for once in a generation legislation to strengthen the trade laws against unfair trade practices and level the playing field for steel manufacturers, for successful passage of transportation and infrastructure bills to benefit the steel industry, and for a balanced approach to energy and environmental regulations that do not diminish manufacturing competitiveness and capitalize on the natural gas renaissance in the U.S.

Gibson said, "It has been an honor every day to represent the dedicated companies that produce steel in the U.S. and North America, and to serve as an advocate for steel industry concerns in

Washington and beyond. While I am looking forward to an active retirement, I will certainly miss the talented and dedicated team at AISI and look forward to hearing about AISI's continued future innovations and successes on behalf of the industry."

Prior to joining AISI, Gibson served as senior vice president of advocacy for the American Chemistry Council. Previously, Gibson served as the senior vice president, government affairs for the Portland Cement Association, chief of staff for the U.S. Environmental Protection Agency and majority deputy staff director to the U.S. Senate Committee on Environment and Public Works. Prior to his civilian government service, he worked as an engineer and program manager at the Raytheon Company, and served on active duty at sea as a Surface Warfare Officer in the U.S. Navy.

AZR 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.

UPCOMING TOPICS

MAY Containers

JUN Fluid Removal

JUL Shears

AUG Shredders

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

Rubicon and Davaco keep 161 tons of metal in recycling

Rubicon and Davaco announced that the two companies have collaborated to keep 161 tons of metal out of landfills and into recycling streams. The 161 tons of metal is the equivalent to nearly 18,000* metal bicycles that could be sitting in a landfill.

After new upgrades to more than 6,700 U.S. Starbucks locations last fall, the company was committed to finding new use for the metal from a variety of metal fixtures. Davaco managed the pickup and removal of more than 34,000 fixtures over a four week period.

Founded in 1990 and based in Dallas, Texas, Davaco is a leader in the management and execution of high volume remodels, resets and rollouts. Davaco partnered with Rubicon to pull in their construction and project experience, circular solution consulting expertise, and network of recyclers to complete the project.

Davaco field reps were dispatched nationwide with daily routes to complete removal of the fixtures from each location in cargo vans and box trucks. Rubicon, via its partnership with Becker Iron & Metal, supplied over 250 recycling facilities in all 50 states plotted along those daily routes for the

representatives to be able to drop the material and be provided with the certificate of destruction for each load.

Rebates were also negotiated with the facilities, which resulted in just under \$10,000 in value back from the material. Davaco and Rubicon will donate those funds to non-profit organizations that support veterans, including The Mission Continues, USO, Team RWB and Blue Star Families. These organizations all also partner with Starbucks to support the company's veteran and military spouse initiatives.

For Starbucks, the project is consistent with new, science-based sustainability strategies the company announced in January that included investing in better ways to manage waste in the company's stores and communities to ensure more reuse, recycling, and elimination of food waste.

Earlier this year, Rubicon and Davaco signed a multi-year partnership agreement to collaborate on sustainable solutions for construction and demolition (C&D) projects across the U.S.

**Data pulled from Bicycle Universe, which states the average mountain bike weighs 18 lbs. 161 tons is equal to 322,000 lbs. 18lbs divided by 322,000 lbs. equals 17,888 bicycles.*

Davenport appointed executive director of Auto/Steel Partnership

Michael Davenport has been named the new executive director of the Auto/Steel Partnership (A/SP). The A/SP is a partnership of North American automotive companies, manufacturers, major sheet steel producers and tier suppliers who collaborate on research, innovation, technical development, validation and education to reduce mass and increase safety and durability in vehicles. Davenport succeeds John Catterall who recently became the vice president of the automotive program for AISI representing steel producer members at the A/SP.

In his new role, Davenport will facilitate technical research projects to ensure steel remains in the forefront and the best solution for efficient weight reduction, fuel economy, vehicle range, environmental stewardship and added value to the auto industry.

This includes developing and executing a strategic project portfolio for all A/SP activities focusing on the partnership between automakers, seven steel companies and tier suppliers. Davenport has extensive experience in Body-In-White (BIW), closures, sealing, exteriors and vehicle assembly. Most recently, he worked as director of application engineering at U.S. Steel Corporation where he was responsible for developing, directing and leading the product applications department teams that are the single point of contact with automakers and Tier 1 engineering organizations. Prior to his role at U.S. Steel, Davenport had nearly 20 years of advancing responsibilities at FCA (formerly Chrysler Corporation) with positions in product development, management and technical leadership.

Novelis Europe earns ASI certifications

Novelis Inc. announced that its plant in Ohle, Germany was awarded the Performance Standard and Chain of Custody Certification by the Aluminum Stewardship Initiative (ASI).

Novelis' Ohle plant, which supplies foil and packaging products, has been successfully certified against the ASI Performance Standard. The ASI Performance Standard defines environmental, social and governance principles and criteria with the aim to address sustainability issues in the aluminum value chain.

Novelis' Ohle plant was also

awarded the ASI Chain of Custody Certification for its joint venture Alunorf, the world's largest aluminum rolling and casting facility, located in Neuss, Germany. The ASI Chain of Custody Standard complements the ASI Performance Standard, certifying not only the plants and their practices but also the physical metal that is produced and processed through the value chain. Certification against both ASI standards means Novelis is able to supply responsibly sourced and sustainably manufactured aluminum products to its customers.

Magnets

■Continued from Page B4

and suspended magnets to remove ferrous metal. We offer eddy current separators for the recovery and separation of nonferrous metals, and our magnetic stainless steel conveyor separators perform the removal, recovery, and separation of lightly ferritic stainless steel," explained Jason Miller, vice president, engineering, Javelin.

"The processing volume of our customers varies based on the application. Our typical customer base processes between 5 to 20 tons per hour. During the sales and engineering phase for our equipment, we strive to gather as much information for the application involved, as possible. This provides the user with the best possible product fit and also helps prevent and eliminate issues during equipment installation and setup. This process also may involve testing equipment – using customer material – in our lab. This gives us the opportunity to see how our

equipment will likely perform, in a simulated customer environment.

Recently, it has become more common for us to see customers who wish to recover and refine more of the metals that they had previously sent to either a landfill or had classified as a mixed metal package. For example, we developed our MSSC magnetic separators specifically for stainless steel recovery and separation, as those metals were typically sold for a lower price in a mixed metal package. As our industry and technologies continue to evolve, our equipment offers the opportunity for higher recovery and purity rates, which allows our customers to increase revenue," commented Miller.

Industrial Magnetics has manufactured and sold magnetic products since 1961 and Javelin has manufactured eddy current separators since 2009. The Javelin brand was acquired by Industrial Magnetics in 2017. The firm serves the following markets: metal recycling, MRF recycling, MSW, e-scrap, food processing, waste-to-energy and peripheral industries as well.

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