



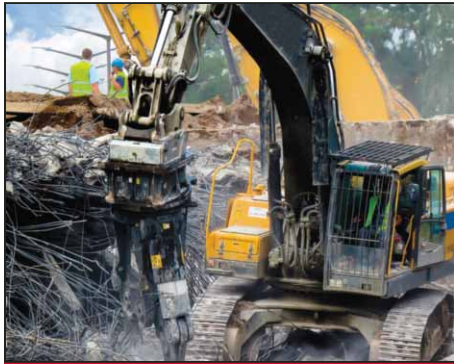
American Recycler

NewsVoice of Salvage, Waste and Recycling

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FOCUS: Metals

Global scrap metal market stabilizes



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Auto recycling changes with technology advancements

by MAURA KELLER

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Few words captivate the automotive recycling sector more than the word 'change.' Anyone with even a casual understanding of the auto recycling marketplace recognizes that change is constantly afoot. And for the past 50 years, many recycling companies, both small and large, have embraced technological innovations to stay ahead of the game.

Auto recycling has long conjured up images of the old "junkyard" — rows of rusty, dusty and dented vehicles sandwiched against one another, awaiting the crusher. For some recycling companies this image still rings true, but the remaining aspect of their recycling process includes a unique mix of factors like environmental reforms, the economy, the influx of international and technological advancements.

The evolution of the relationship between automakers and recycling industry partners is the result of the ongoing technological changes facing the auto industry. Due to the advancements made in the building of today's automobiles, the auto recycling industry also needs technology advancements to properly dismantle, handle and recycle autos.

According to Automotive Recyclers Association, auto recycling companies are faced with the recycling of new technologies such as high voltage batteries. The automotive industry has published dismantling manuals for these batteries and is developing standards for labeling, transportation, testing, packaging and recycling through Society of Automotive Engineers workgroups.

As with the influx of high voltage batteries within automobile construction, plastics of all types are requiring changes in technology within the automotive recycling industry.

According to SPI: The Plastics Industry Trade Association, on average, plastics reduce the weight of automo-



ISRI's specifications for end-of-life vehicle bumpers help spur additional recycling and usage of the material.

biles by 500 to 750 lbs. But with about 39 different types of plastics being used in automobiles, recycling those vehicles at their practical end-of-life — about 27 million every year around the world — can be a challenge.

However, automotive plastics recycling is still in its relative infancy, given the fact that recycling some plastic and polymer composite components can be challenging in terms of costs, technologies required and the very properties of plastics. As SPI explained, the technologies required to properly recycle the variety of plastics found within an automobile are significantly more advanced over merely sending the vehicle to a shredder.

Separation technologies such as float-sink tanks, magnetic separation, eddy current separators and laser and color-sorting infrared systems are available and being used by some recyclers in handling post-consumer materials. These options can cost millions of dollars per facility and represent only one part of the recycling process.

Because of the complexities involved in plastic recycling within the auto recycling industry, the Institute of Scrap Recycling Industries (ISRI) worked with recyclers to develop scrap specifications for plastic automotive bumper covers. The specifications for end-of-life vehicle bumpers help spur additional recycling and usage of the material.

In addition to the myriad of plastics currently found within today's automobiles, some car manufacturers are exploring using new materials that will further require recycling companies to invest in the proper technology and training to handle these materials. For instance, bioplastics are now a part of the automotive manufacturing process. Ford is using soy to develop

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U.S. equipment manufacturers make tactical investments as China bans solid waste imports

With China's National Sword regulation imposing restrictions on the import of solid wastes, U.S. single-stream recycling material recovery facilities (MRFs) are left with few options for processing their vast quantities of recycling materials. The technology and capabilities gap between the advanced foreign facilities and the domestic facilities are compelling the latter to make strategic investment decisions regarding processing equipment. While operations and business models will undergo major changes, it is processing technologies such as optical sorting, robotics and Artificial Intelligence (AI) that will drive the \$185.2 million market towards \$251.7 million by 2022, at a compound annual growth rate of 6.3 percent.

"Although National Sword has quickly increased the number of project and retrofit opportunities in the U.S., many budget constrained MRFs will adopt a wait and watch approach. This technology and fiscal shyness of end users will prompt market participants to develop local sales plans, wherein they will leverage a professional sales team to build strong relationships with their key accounts," said Seth Cutler, principal consultant for energy and environment at Frost & Sullivan. "Differentiation will mostly be based on the quality of services, with vendors' sales staff serving as consultants and providing tailored solutions to plant operators."

Frost & Sullivan's recent analysis, Growth Opportunities in the U.S. Single-Stream Recycling Material Recovery Facility (MRF) Equipment Market, Forecast to 2022, segments the market by revenue categories into conveyance, separation and compaction. The study presents visioning scenarios and growth pipelines, and identifies opportunities to improve vision, strategy, and brand.

"MRFs are stockpiling recycling bales, and if need arises, will landfill the bales to avoid unsafe conditions. It is likely that paper mills and other manufacturing facilities will lower their restrictions on the types of materials accepted to gain access to a large supply of feedstock," noted Cutler. "Significantly, major Chinese pulp and paper companies are looking to acquire U.S. companies. For instance, Nine Dragons

has already acquired three domestic mills."

The majority of the market shares are concentrated among the four major equipment suppliers: Bulk Handling Systems, CP Group, Machinex Industries Inc., and Van Dyk Recycling Solutions. To capture greater shares in this highly consolidated market, participants

need to tap the growth opportunities inherent in:

- Retrofitting new, advanced screens and sorters. Additional investments in smart systems and AI will drive their long term growth.

- Employing contract models that incorporate more effective inspection processes to improve recycling habits.

- Upgrading to screens, non-wrapping screens, and sorting, especially optical and color optical sorting.

- Fostering close relationships with MRF operators and understanding their current facility equipment, experiences, and preferences.

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Technology

■Continued from Page 1

bio-based polyurethane foams on the seat cushions, seatbacks and headliners on various vehicle models. The company is also working with H.J. Heinz Company on research to use tomato fibers (skins, stems and seeds) for vehicle wiring brackets and storage bins such as coin and cup holders.

Toyota also is working to utilize plant-derived ecological plastic in some components of Toyota vehicles. The company's commitment to bioplastic technologies is part of the company's effort to replace 20 percent of a vehicle's plastics with recycled or ecological plastic materials.

The use of bioplastics in vehicles is still in its infancy as these sustainable materials need to meet vehicle specifications and integrity standards and need to offer the same durability and performance of traditional plastics.

Technology Training

Technological advancements within the auto recycling industry are also dictating the demand for ongoing training on the part of recycling professionals. Recycling business owners continue to realize training is the key to getting the most out of their technology investment. In fact, many companies use training to keep their staff apprised of the latest technology so they can deliver technology-driven solutions to today's auto recycling industry.

"Technology plays a key role in addition to training," said Greta Houlahan, project manager, automotive certification at NSF International.

"Independent, third-party certification ensures a recycler's ability to meet criteria for grading, labeling and traceability in addition to vehicle acquisition, dismantling, inventory, training, customer service and auditing requirements." More specifically, NSF International certification requires automotive recyclers to have continuous training in place and that the work be performed by trained and qualified individuals. For example, employees conducting dismantling shall be trained in safety related procedures.

Insurers and regulators want recycled parts that are graded and labeled properly. As Houlahan explained, with NSF International certification, recyclers can differentiate themselves in terms of meeting cycle time and ensuring accuracy when it comes to inventory, grading and part labeling.

"Annual audits, a key certification requirement, support ongoing compliance and emphasize continual improvement," Houlahan said.

Technology will continue to impact the recycling industry and training will continue to be a key element in not only earning certification but also maintaining it. Houlahan pointed to the example of part complexity as an example of effective training.

As Houlahan explained, a recycler needs to know what to dismantle so sellable inventory is not crushed. An inventory management system to manage vehicles and parts is one solution.

"NSF International certification looks to ensure these systems are in place and that training occurs so that not only is the system used correctly,

but that employees also know the critical role they play in operational efficiency, process improvement and safety," Houlahan said. "Just as recyclers need to stay current on training and technology to be successful, certification organizations need to do the same."

While vehicles are stocked with such advanced systems there will still be plenty of interchangeability of parts. The environmentally conscious generations will likely support the auto recycling industry's green initiatives.

"The scrap metal market is still trying to fight its way back but the volatility there makes it tough," Houlahan said. "The modern scrap recycling yard will need to shift its focus to the high end parts that contribute to new technology."

Events Calendar

April 1st-2nd

North American Waste-to-Energy Conference (NAWTEC). Hyatt Regency, Reston, Virginia.
888-744-1449 | www.swana.org

April 1st-3rd

Aluminum Association Spring Meeting, Belmont Hotel. Charleston, South Carolina.
703-358-2960 | www.aluminum.org

April 8th-11th

ISRI Convention & Exposition. Los Angeles Convention Center, Los Angeles, California.
202-662-8500 | www.isri2019.org

April 11th-13th

United Recycler's Group. Hyatt Regency Grand Cypress, Orlando, Florida.
888-874-3463 | www.u-r-g.com

May 1st

CARE Conference. Houston Airport Marriott, Houston, Texas.
706-428-2127 | www.carpetrecovery.org

May 6th-9th

AISTech 2019. David L. Lawrence Convention Center, Pittsburgh, Pennsylvania.
724-814-3000 | www.aist.org

May 6th-9th

WasteExpo. Los Angeles Convention Center, Los Angeles, California.
203-358-4384 | www.wasteexpo.com

May 19th-22nd

The Federation of New York Solid Waste & Recycling Conference with Trade Show. The Sagamore Resort, Bolton Landing, New York.
585-732-5376 | www.nyfederation.org

May 20th-21st

NRRA'S 38th Annual Northeast Recycling Conference & Expo. The DoubleTree by Hilton Downtown, Manchester Downtown Hotel, New Hampshire.
603-736-4401 www.nrna.net

June 2nd-4th

Waste Conversion Tech Conference & Tradeshow. The Borgata Hotel Casino & Spa, Atlantic City, New Jersey.
800-386-6280
www.wasteconversionconference.com

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Orange County recycling program selected for grant

The Orange County Board of County Commissioners approved a grant agreement with The Recycling Partnership to enhance Orange County's recycling quality improvement program through education, outreach, access and training opportunities.

The Recycling Partnership, a national nonprofit organization that provides grants and technical support, will award Orange County \$193,000 plus an additional \$150,000 in staff and resource support. For its part, Orange County Utilities agreed to dedicate \$30,000 of staff time resources to advance the recycling quality improvement program.

The county's recycling quality improvement program started last summer by inspecting recycling carts, tagging and providing feedback to customers on how to recycle right. Wrong items, such as plastic bags, pizza boxes, clothing and other non-recyclable items, impact how much material can be recycled in the County program. Unincorporated Orange County residents are encouraged to Think 5: only recycle plastic, metal and glass containers, cardboard and paper. When in doubt, leave it out!

Results from this partnership will be shared by Orange County, The Recycling Partnership and Green Blue Institute with other Florida communities at a training workshop tentatively scheduled for late 2019. The overall program is being supported by a grant from The Coca-Cola Foundation.

ISRI adds safety awards recognizing demonstrated core safety values

As part of its Circle of Safety Excellence™ (COSE) initiative, the Institute of Scrap Recycling Industries (ISRI) will award new safety awards at the 2019 ISRI Convention and Exposition. The COSE Occupational Awards recognize COSE member companies for outstanding commitment to the safety of employees by instilling core safety values and exhibiting continuous improvement in safety programs and worker incident reduction.

"Safety is a core value of ISRI," said ISRI safety transportation director, Commodore E. Hall. "The COSE Occupational Awards were designed to recognize those companies that exemplify this value and set the standard for safety in the recycling industry. Together, with the Transportation Safety Awards, they demonstrate a company of individual's high-level of commitment to the safety of employees, customers, and general public through operations, practices, and culture."

COSE is an initiative offered by ISRI to help improve worker, vehicle and facility safety within the recycling industry. The COSE members consist of like-minded companies which voluntarily come forward to share best practices and safety data for the betterment of their own safety operation, and at the same time be recognized by ISRI for their commitment to safety.

ISRI Circle of Safety Excellence Awards

The Best-in-Class Award will be granted to the COSE member company or facility with the lowest OSHA Total Recordable Incident Rate (TRIR) for the period of January 1, 2018 – December 31, 2018. (OSHA 300 logs may be used to validate the member's recordable incident experience). First, second and third place prizes will be awarded in each of four class categories, defined by annual hours worked.

The Rising Star Award will be granted to the COSE member company or facility that has achieved an OSHA TRIR of 2.94 or less for the period of January 1, 2018 – December 31, 2018. The standard of 2.94 was derived from a five year NAICS Code (4239) TRIR average. (OSHA 300 logs may be used to validate the member's recordable incident experience). Awards will be in each of four class categories, defined by annual hours worked.

The Superior Achievement Award will be granted to the COSE Member Company or facility that has achieved an OSHA TRIR of .75 or less for the period of January 1, 2018 – December 31, 2018. (OSHA 300 logs may be used to validate the member's recordable incident experience). Awards will be in each of four class categories, defined by annual hours worked.

Transportation Safety Awards

The entry period 2019 Transportation Safety Awards is also open until March 15. The program, now in its seventh year, recognizes those with a superior

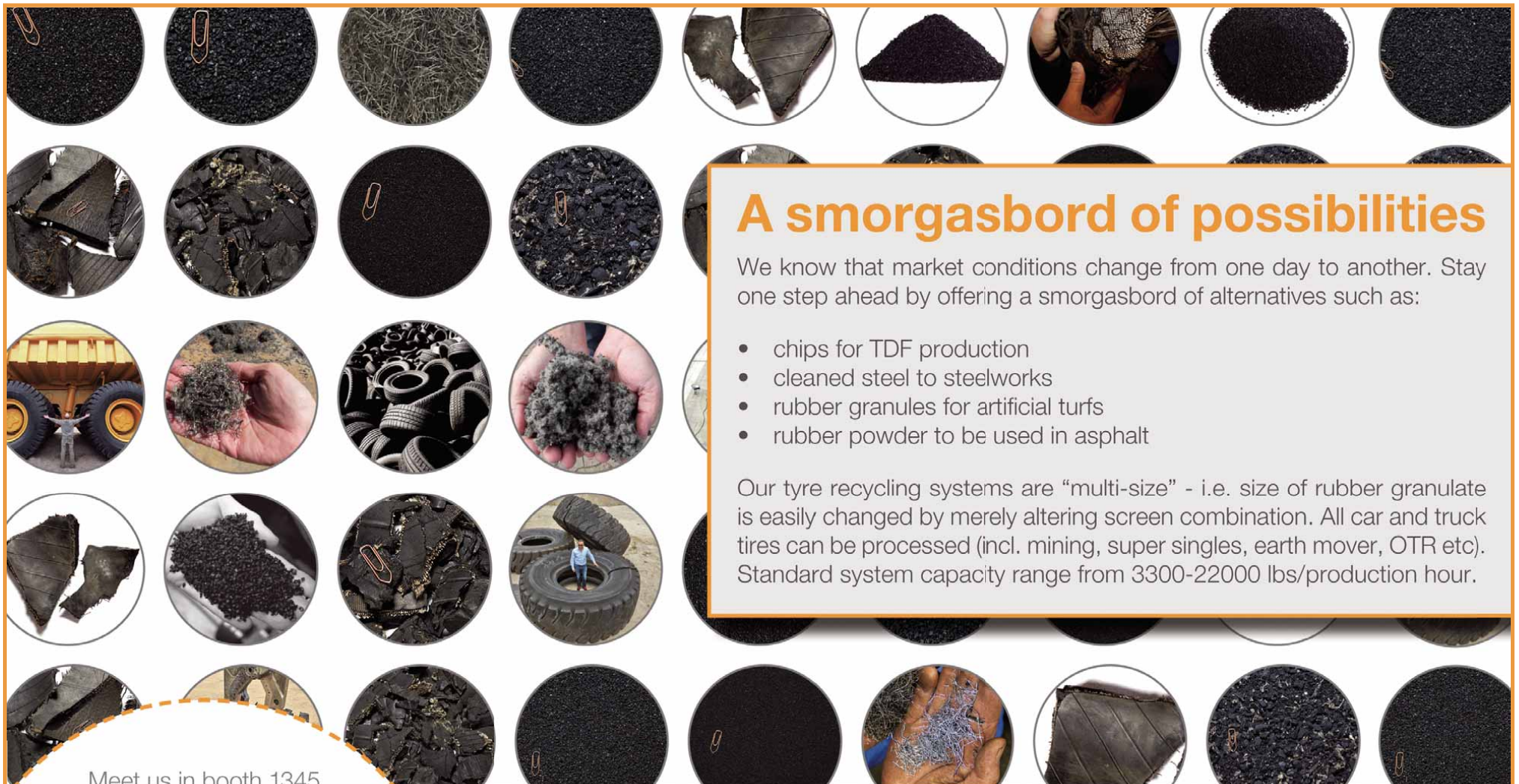
record of safety in the field of transportation. It consists of four awards: the Best Fleet Awards, Pacesetter Awards, the Driver of the Year Award, and the ISRI Golden Wrench Award. The Transportation Safety Award program is sponsored by the RecycleGuard® Insurance Program.

The Best Fleet Awards will be presented to the ISRI member with both the lowest vehicle accident rate and the lowest DOT severity rate for the calendar year 2018 in each of four classes, determined by size.

The Pacesetter Awards will be granted to the ISRI member with the lowest 36 month accident record, and the lowest vehicle severity accident rate for the same 36 month period in each of four classes, determined by size.

The Driver of the Year Award will be awarded to the commercial vehicle driver with the best 20 year driving record, with the minimum qualification being no at-fault accidents during the driver's entire career. The winner will receive \$500, a trophy, a leather jacket and a trip to ISRI2019.

The ISRI Golden Wrench Award will be given to the best heavy vehicle maintenance technician or manager who exhibits outstanding efforts, achievements, and contributions to ensure that commercial vehicles are safe on the road. The winner will receive a trophy and a trip to ISRI2019.



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Gillette strives to make all razors recyclable

Gillette, in partnership with TerraCycle, announced that all brands of disposable razors, replaceable-blade cartridge units and razor plastic packaging are recyclable on a national-scale.

Through the innovative partnership consumers are invited to recycle their razors in three ways:

- Gillette Razor Recycling Program – Participants wishing to recycle their razors from home are invited to sign up on the program page on the terracycle website. When ready to ship their waste they can simply download a self-funded TerraCycle tracking label, package the razors in a secure, puncture proof package and send it to TerraCycle for recycling.

- Gillette Razor Local Recycling Solutions – Businesses, gyms, colleges, cities and community organizations are invited to become public drop-off points for the Gillette Razor Recycling Program. Participants interested in becoming a drop-off point are invited to sign up on the program page <https://www.terracycle.com/en-US/brigades/gillette-local-recycling>. After acceptance to the program, they will be sent an exclusive razor recycling bin developed by TerraCycle and Gillette. Once full, they can simply seal and return the bin to TerraCycle via UPS and a new one will be sent back to them.



The address listed in the account will be posted on the publicly available map of local recycling solutions on the Gillette Razor Recycling Program page.

- Gillette On Demand Razor Recycling Program – Consumers that participate in the Gillette On Demand subscription service are also invited to recycle their razors through the Gillette Razor Recycling Program.

Sign up is on the program page at <https://www.terracycle.com/en-US/brigades/gillette-on-demand>, when they are ready to ship their waste they can simply download a self-funded TerraCycle tracking label, repackage the used razors in the On Demand delivery box and send it to TerraCycle for recycling.

Organizations that participate in the Gillette Razor Local Recycling Solutions as a public drop-off location earn money for the waste that they recycle through TerraCycle's Sponsored Waste Recycling Program. For every shipment weighing at least fifteen pounds, collectors earn points that can be used for charity gifts or converted to cash and donated to charities of their choice. The collected packaging will be recycled into a variety of new consumer products such as park benches, bike racks, pet food bowls and recycling bins.

SWACO makes it easier for communities to recycle

The Solid Waste Authority of Central Ohio (SWACO) is launching a new program to help Franklin County communities purchase curbside recycling carts for a reduced price.

While over 96 percent of Franklin County single family households currently have access to curbside recycling pick up, many communities still use small recycling containers or bins, roughly 18 gallons in capacity, for their residential programs.

The 65 gallon wheeled recycling carts provide residents and communities many advantages over the old-style recycling bins. Besides the fact that they're much easier to take to the curb, they have a lid, which reduces litter on windy days, and the larger size makes it easier for residents to recycle more material. Wheeled carts allow for automated collection to improve the safety of collection workers and greater efficiency, both of which benefit communities as they seek competitive bids for lower-cost recycling and waste-hauling services.

"Wheeled recycling carts often result in a 30 percent increase in the amount of recycling received from residents. There are lots of reasons why they are considered a 'best practice' in the industry, and we're very excited to partner with our local communities to help them move to a cart based recycling system," said Kyle O'Keefe, director of Innovation and Programs at SWACO.

SWACO will use a portion of the disposal fee collected at the Franklin County Sanitary Landfill to pay for the

costs associated with purchasing the new carts. Funding for this program is available to Franklin County communities who do not currently own wheeled recycling carts.

Beginning this spring, 65 gallon or larger wheeled recycling carts with lids will be coming to more Franklin County neighborhoods.

SWACO will initially provide the larger carts to 5 communities: Bexley, Blendon Township, Gahanna, Reynoldsburg and Westerville.

Thanks to additional funding SWACO secured through a grant provided by The Recycling Partnership, a national organization that works with communities to improve and expand recycling, these first five communities will receive an even greater reduction in the cost to purchase the new, 65 gallon recycling carts. The larger carts typically cost about \$45 each, but these communities will pay only \$15.52 per cart, with SWACO and The Recycling Partnership contributing the rest. The grant was provided as part of the All In On Recycling challenge launched last summer by The Recycling Partnership and the PepsiCo Foundation.

While the Recycling Partnership grant dollars are limited, SWACO will continue to help any other Franklin County community that doesn't currently own recycling containers and wishes to introduce or upgrade to wheeled carts by helping the carts to be purchased for only \$22.50, which is a 50 percent reduction in price.

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Pro Disposal & Recycling awarded “Best Large Business”

Pro Disposal & Recycling, a residential waste and recycling hauler in the Denver area, has received recognition from the Chamber of Northwest Douglas County as this year’s “Best Large Business.”

The award goes to the company that has more than 50 employees and that best exemplifies the Chamber’s commitment to the highest integrity in business practices. Pro Disposal & Recycling accepted the award recently at the Chamber’s annual luncheon in Lone Tree.

“Of all the awards we have won in recent years, none means more to us than this one from the Chamber, because it comes from a group of savvy business people who know Pro Disposal & Recycling better than anyone,” said Rick DePaiva, district manager of Pro Disposal & Recycling. “We interact regularly, and many of them are Pro Disposal & Recycling customers, so they know the true extent of our commitment to customer service, business ethics and community involvement.”

Pro Disposal & Recycling has been a Chamber member for eight years. The company operates in 14 cities around the Denver metro area, but it has a concentration of business in the area served by the Chamber, including service that Pro Disposal & Recycling provides for the official operations of Douglas County administrators.

Republic Services added to world’s most ethical list

Republic Services, Inc. has been included on the 2019 World’s Most Ethical Companies® List by the Ethisphere Institute, a global leader in defining and advancing the standards of ethical business practices. Republic is the sole recycling and solid waste services provider to be honored with this recognition.

The 2019 list honors 128 companies spanning 21 countries and 50 industries. These corporations illustrate how companies can be the driving force for improving communities, building capable and empowered workforces, and fostering corporate cultures focused on ethics and a strong sense of purpose.

“We congratulate our 36,000 employees for achieving this honor for the third consecutive year,” said Catharine Ellingsen, executive vice president, chief legal officer and chief ethics and compliance officer. “This recognition speaks to the culture of Republic Services and exemplifies our employees’ shared commitment to making ethics and compliance a priority in their everyday actions and decisions.”

The World’s Most Ethical Companies assessment is based on the Ethisphere Institute’s Ethics Quotient® framework, which offers a quantitative

Too many people spend money they haven’t earned, to buy things they don’t really want, to impress people they don’t like.

way to assess a company’s performance in an objective, consistent and standardized manner. The information collected provides a comprehensive sampling of definitive criteria of core competencies rather than all aspects of corporate governance, risk, sustainability, compliance and ethics.

Scores are generated in five key categories: ethics and compliance program (35 percent), culture of ethics (20 percent), corporate citizenship and responsibility (20 percent), governance (15 percent) and leadership and reputation (10 percent). All companies that participate in the assessment receive their scores, providing them with valuable insights into how they stack up against leading organizations.

NWRA Colorado changes name

The National Waste and Recycling Association’s Colorado Chapter voted to change its name to become the Rocky Mountain Chapter in an effort to be more inclusive and represent the interests of NWRA members in the neighboring states of Utah, New Mexico and Wyoming.

The chapter will focus on Technologically Enhanced Naturally Occurring Radiative Materials legislation and partnering with customers and interest groups on recycling market conditions.

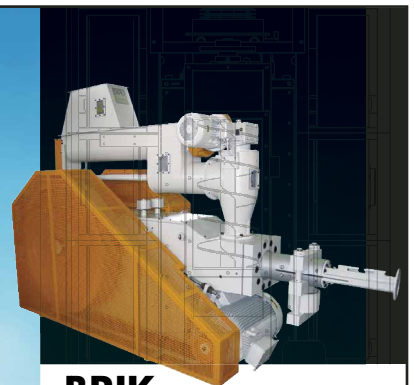
The chapter elected Scott Hutchings, Waste Management, Inc. as its chairman and Bryce Isaacson, Western Disposal Services, Inc. as its vice chairman last year. They will continue to serve through 2019.

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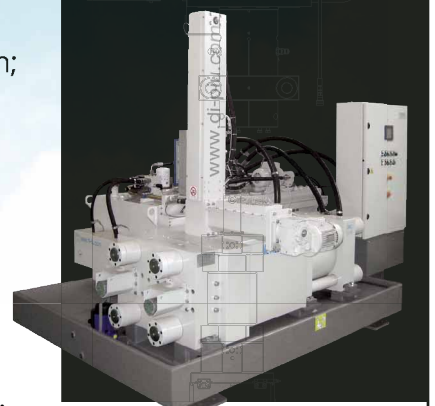
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PLASTICS

Sustainability Innovation Awards given for ideas for managing plastics

The Plastics Industry Association (PLASTICS) announced the winners of the first ever Refocus Sustainability Innovation Awards. The three categories recognized the best in materials, design and end-of-life innovations, all of which were assessed by a judging panel of experts in recycling and sustainability from members of PLASTICS and the SPE Sustainability Division.

The winners include:

Materials

•Dell for its Latitude 5000 Notebook which contains a structural material for a notebook computer housing that is 50 percent recycled content by weight and still meets the toughest durability requirements.

Design

•Tarkett for the ethos® Modular Carpet Tile with Omnicat Technology which was created using recycled mate-

rial from disposed windshields and safety glass.

End-Of-Life

•Circular Polymers/Broadview Group for the Rotary Impact Separator which disassembles post-consumer carpet into clean face fiber, clean backing fiber and a limestone granulate.

PLASTICS received 39 submissions, spanning from 11 industry sectors and nine countries around the world.

“The winners of the 2019 Sustainability Innovation Awards provide inspiration to our industry by bringing sustainability to the forefront of their business,” said plastics’ vice president of sustainability Kim Holmes. “The submissions received were creative and these particular innovations display real promise in commercial applications that show how we can scale these new technologies.”

It's the people who try to be clever who never are, the people who are clever never think of trying to be.

—Gilbert Parker

India bans scrap plastic imports

In order to strengthen the implementation of environmentally sound management of hazardous waste in India, the Ministry of Environment, Forest and Climate Change has amended the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 vide notification G.S.R. G.S.R. XX (E), dated March 1, 2019.

The amendment has been done keeping into consideration the “Ease of Doing Business” and boosting the “Make in India” initiative by simplifying the procedures under the rules, while at the same time upholding the principles of sustainable development and ensuring minimal impact on the environment.

Some of the salient features of the Hazardous and Other Wastes Amendment Rules, 2019 are as follows:

•Solid plastic waste has been prohibited from import into the country including in Special Economic Zones (SEZ) and by Export Oriented Units (EOU).

•Exporters of silk waste have now been given exemption from requiring permission from the Ministry of Environment, Forest and Climate Change.

•Electrical and electronic assemblies and components manufactured in

and exported from India, if found defective can now be imported back into the country, within a year of export, without obtaining permission from the Ministry of Environment, Forest and Climate Change.

“ISRI is disappointed in India’s shift in policy to plastic scrap imports,” says Adina Renee Adler, assistant vice president of international affairs for the Institute of Scrap Recycling Industries (ISRI). “In the first 11 months of 2018, the U.S. exported more than 120 million kilograms worth more than \$46 million in plastic scrap. This highly valuable commodity is needed as feedstock in the manufacturing process. Eliminating its availability is a detriment to the global environment as it will force manufacturers in India to rely more on virgin material.”

India’s Ministry of Environment, Forest and Climate Change has clarified that importers in the country’s Special Economic Zones and Export Oriented Units will be exempted from its scrap plastic import ban until August 31, according to Recycling International and EUWID. This transition period is expected to allow any shipments in transit to be processed.

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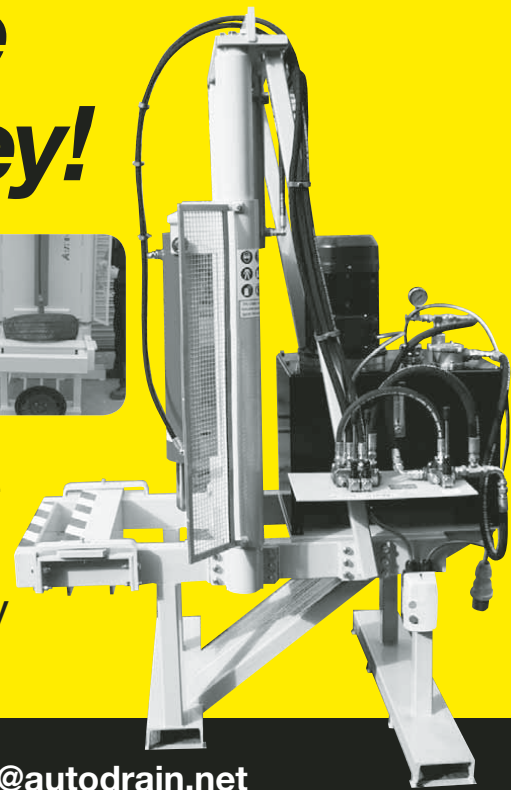
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PLASTICS

Canadian chemistry industry commits to zero plastic waste

Modern-day necessities like food packaging, medical equipment, lighter vehicles and sustainable energy are made possible through the use of plastics, but these products do not belong in our waterways or the environment.

Chemistry Industry Association of Canada (CIAC) members and those in the plastics value-chain are ready to step up to support a circular economy for these products, said a new report by the CIAC, *The Role of Chemistry in a Circular Economy for Plastics*.

Today in Canada, as a result of inadequate sorting, contamination, limited end markets and not employing all technology available, nearly 80 percent of all post-consumer plastics end up in landfills – three million tons annually. The current approach to producing, using and disposing of plastics poses a real threat to the environment and results in a significant loss of value, resources and energy.

The chemistry sector, which includes plastic, has a long, well-established history of innovation to solve society's most pressing needs by developing new processes and solutions. The chemistry industry supports the transition from a linear economy to a more sustainable approach that prioritizes the extension of product life cycles, extracting maximum value from resources in and after use.

"Canada's chemistry industry and its highly skilled workers are uniquely positioned to provide innovative solutions to avoid and extract value from plastic waste. But these ambitions will not be easy to achieve and will require significant investment and cultural shifts towards a more circular economy," said CIAC president and chief executive officer Bob Masterson. "Our industry is stepping up to provide workable solutions."

SodaStream opens center in Canada

SodaStream is demonstrating its leadership in fighting single use plastics by opening its first Canadian refilling station in Mississauga. This new high-tech facility is indicative of SodaStream's rapid growth as more and more Canadians look to reduce their use of plastics.

In 2018, SodaStream Canada grew by almost 50 percent and is the fourth

largest country in the global SodaStream family, selling 1.5 million machines since 2010. The new refilling center will be an opportunity for SodaStream to continue to ensure customers can enjoy their sparkling water.

In SodaStream's mission to protect the environment, the new facility will eliminate 208 trips between Toronto and New Jersey annually.

INDUSTRY PROFILE

A Closer Look

by Donna Currie

Alpine Waste & Recycling

Brent Hildebrand • 303-744-9881

Alpine Waste & Recycling got its start in 2007 with just one truck. The business was conducted from the home of John Griffith, the founder of the company. Since then, the company has grown to 120 trucks, headquarters, a recycling facility, a compost facility and a landfill. "Growth has been tremendous," said Brent Hildebrand, the company's vice president of recycling.



Hildebrand said that from the very beginning, Griffith offered the best service in the industry and wanted to be innovative so the company could offer the services that customers really wanted, above and beyond what was currently available.

Since it was founded, the company has collected quite a list of firsts. For example, they were the first company in the metro Denver area to pick up compost commercially. "He saw a need and put that in place," Hildebrand said. They were also the first to accept milk and juice cartons for recycling, and the first to be able to handle plastic lawn furniture and five gallon plastic buckets. They're also one of the few companies in the country that can handle Styrofoam packaging materials, and now they can accept take-out coffee cups that would otherwise end up in the landfill.

The company embraces technology and is always looking for better ways to handle all the materials that come in. In 2015, they put in a state-of-the-art system with new technology that allows them to process trash more efficiently.

They use optical sorters for recycling and have the first robot being used for sorting recyclable materials. The robot isn't just a machine that picks things up and puts them down. It actually has artificial intelligence and is learning about sorting materials and making choices on its own.

They also use technology to help customers understand their waste and recycling profile. Customers who use Alpine for waste, compost and recycling get a sustainability report based on the weight of the materials picked up, and it shows how much material they diverted from the landfill by recycling and composting. Commercial customers might find out that they recycled a ton of paper which saved 17 trees.

Hildebrand has been working for Alpine for 13 years, but he started in the industry in 1995 when he joined a large waste company. He had been living in the mountains, but came to Denver and noticed the waste company had great marketing throughout the area. He introduced himself and ended up getting a job. That led to his move to Alpine a few years later.

"I had known the president for quite a while," Hildebrand said of Griffith. When Griffith wanted to invest in building his business, Hildebrand joined him. Hildebrand said that his first job in waste and recycling was "accidental," but "I can't see myself in any other industry. We're doing something that's worthwhile for the environment."

When it comes to diverting materials from landfills, Hildebrand said they are one of the top 25 single stream processing companies in the country. But that statistic won't stop them from innovating and growing.

Hildebrand said that when it comes to recycling, there are always new items being developed, like K-cups. Sometimes these new items end up in landfills, but "we're constantly looking at what can be recycled," but "there's always something that throws a curveball."

Some things that come across the sorting tables are truly weird, like the bearded dragon that showed up one day. The lizard was alive, but "he was in rough shape." Dragons apparently aren't recyclable, so he got a ride to the vet instead.

There's no doubt Hildebrand loves the industry he's in, and he said the best part is, "to get up in the morning and know that I'm going to be a part, along with a bunch of other people, of diverting 600 to 700 tons of material from a landfill."

Hildebrand is also pleased to be with a company that is always looking towards the future. "Twenty years ago in Colorado, single stream wasn't even talked about," he said, but Alpine has "embraced waste diversion like no other company in this area." Now, single stream is "a big thing" that makes it easier for people to recycle.

Recently, Alpine was acquired by a company called GFL. We're a pretty massive company these days," Hildebrand said. But size wasn't the most important thing in that acquisition. GFL stands for Green for Life. "You can tell by the name what is important for us."



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ALTERNATIVE ENERGY

BioHiTech opens renewable resource recovery facility

BioHiTech Global, Inc., a technology and services company that provides sustainable waste management solutions, has initiated operations at the nation's first HEBioT™ renewable resource recovery facility located in Martinsburg, West Virginia.

The company has successfully completed the first phase of plant commissioning including the facility's reception area, overhead bridge cranes, and its primary mechanical sorting equipment. The company has begun the next phase of plant commissioning and progressing operations, which includes receiving limited amounts of waste and beginning runs of its patented high efficiency mechanical and biological treat-

ment process for producing an EPA recognized solid recovered fuel (SRF). The limited processing runs are expected to result in the production of SRF in the coming weeks with the facility reaching full operations early in Q2 2019.

The Martinsburg Facility is expected to generate \$7 million of high margin revenue annually while diverting as much as 80 percent of the waste that enters the facility from landfills. The majority of the waste, to be delivered as feedstock to the facility, is covered under a 10 year put-or-pay agreement with a local waste hauler owned by Gold Medal Group, a regional waste management services

company backed by Kinderhook Industries, and 100 percent of the SRF that will be produced is subject to a 10 year, take-or-pay agreement with Argos USA, LLC., one the largest producers of Portland cement in the U.S. The SRF manufactured at the facility will be utilized by Argos as a partial replacement for coal used in the cement manufacturing process. The 56,000 sq.ft. facility is completely enclosed and fully automated with no waste being exposed to the outside environment and no workers in direct contact to the waste processing.

Commenting on the announcement, Frank E. Celli, chief executive officer of BioHiTech Global stated, "The initiation of revenue generating operations at this first facility of its kind in the U.S. is a pivotal moment for our company and an important step forward in the movement to lessen the environmental impact of waste management. This flagship facility will add significant high margin revenue and will serve as a model for how BioHiTech can cost effectively create positive environmental change throughout the U.S. By bringing this facility across the finish line we are now at the starting line for sustainable long term revenue growth with a roadmap to build significant value for our stockholders."

BioHiTech is the largest owner of the Martinsburg Facility through a

majority owned subsidiary company with a 78 percent controlling interest in its operations. Gold Medal Group owns the remaining minority stake in the subsidiary.

BioHiTech also announced that the company's subsidiary, Rensselaer Resource Recovery, LLC, has submitted an application for final approval from the State of New York to construct and operate a 72,000 sq.ft. HEBioT municipal waste processing facility in Rensselaer, New York.

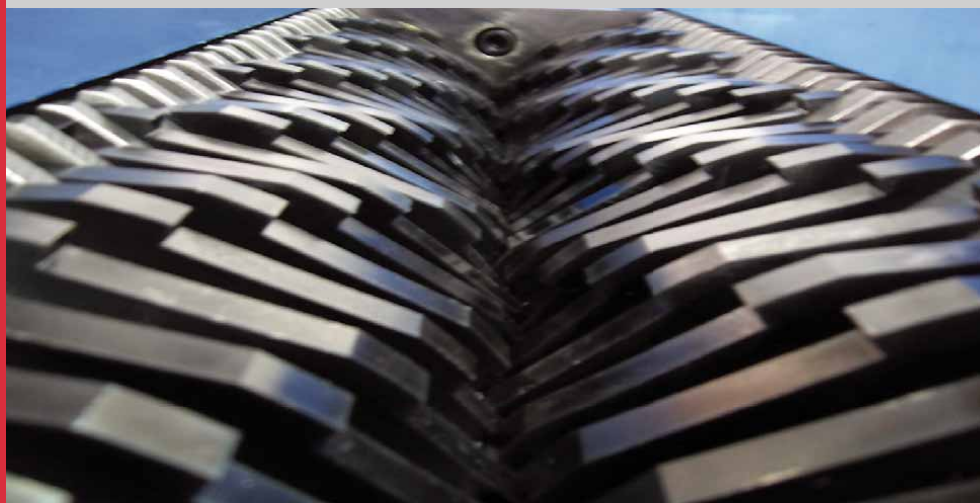
The planned HEBioT development project is located on 23 acres of land in the City of Rensselaer's southern industrial area designated as an Opportunity Zone under the rules established by Congress in the Tax Cuts and Jobs Act of 2017. The company received local approval for its development plan in September of 2018. Upon completion, the facility is expected to generate approximately \$12 million of high margin annual revenue through a patented waste processing system that converts approximately 40 percent of mixed municipal waste into an EPA approved solid recovered fuel (SRF).

The Rensselaer project will be the second facility launched by BioHiTech in conjunction with Kinderhook Industries, a private investment firm that manages over \$2.0 billion of committed capital. Kinderhook recently contributed \$5.5 million dollars in cash and assets to accelerate the growth of BioHiTech's HEBioT business.

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ELECTRONICS

Nikki Reed and Dell turn e-waste into new treasures with recycled gold jewelry



Dell and actress, entrepreneur and activist Nikki Reed are collaborating in support of the sustainable design movement. The Circular Collection by Bayou with Love and Dell is a new limited edition jewelry collection made in the U.S. and sourced from gold recovered from Dell's recycling programs. The collection, which includes 14 and 18 carat gold rings, earrings and cufflinks, will be showcased at this year's 2018 Consumer Electronics Show to highlight the widespread impact that e-waste has on the environment and the role we all play in advancing a circular economy.

"Bayou with Love was created to bring greater awareness to the human impact on our planet and show that

beautiful items can come from sustainably sourced and recycled materials," said Nikki Reed, co-founder of Bayou with Love. "By recycling gold that was once considered 'waste,' Dell and I are working to create an environment where we continuously reuse resources and strive for zero waste."

In addition, Dell is announcing an industry-first pilot to use recycled gold from used electronics in new computer motherboards, which will ship in the Dell's Latitude 5285 2-in-1s.

The pilot follows a successful feasibility study on server motherboards. The closed-loop gold process could support the creation of millions of new motherboards in the next year.

Call2Recycle reveals top 10 battery recycling states

Call2Recycle®, the country's largest consumer battery recycling program, revealed the 2018 top 10 battery recycling states based on program participation.

Contributing factors driving the top 10 states performance included strong participation from manufacturers along with public collection networks (municipalities and retailers). A surge in the removal and management of damaged batteries from the market and education awareness efforts also complemented collection efforts.

Proper handling, management and transportation of used batteries helps to mitigate the risk of safety incidents. The top 10 battery recycling states

responsibly disposed of nearly 3.5 million pounds of batteries in 2018, helping to support the program's mission of protecting the planet by keeping batteries out of landfills.

The program's collection network allows for easy and accessible battery recycling, with 86 percent of residents living within 10 miles of a drop-off location. Before recycling, consumers should review tips on how to safely prepare their batteries.

Last year, Call2Recycle collected 7.2 million pounds of consumer batteries. Since 1994, the program has diverted and recycled more than 115 million pounds of batteries from U.S. landfills.

State	Battery Collections per Share of	Min Number of Pounds
Vermont	1,074%	146,000
Delaware	473%	99,000
Georgia	288%	657,000
Minnesota	159%	193,000
California	147%	1,261,000
Illinois	147%	405,000
Tennessee	134%	17,000
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Pennsylvania	115%	319,000
Washington	111%	181,000



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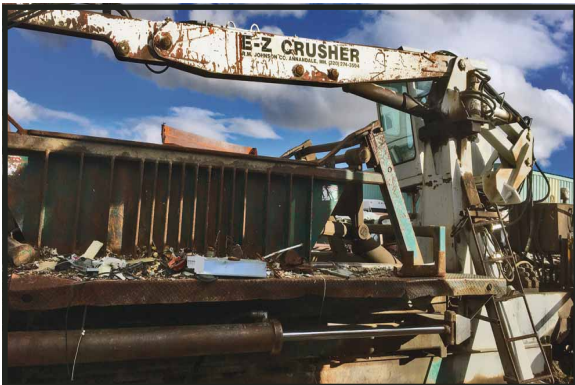
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METALS

Steel imports down 12 percent

Finished import market share at 23 percent in 2018

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	DEC 2018	NOV 2018	2017 Full Year	2018 Full Year	% Change 2018 Annual vs. 2017
SOUTH KOREA	91	195	3,753	2,764	-26.3%
JAPAN	97	115	1,504	1,383	-8.1%
GERMANY	114	125	1,405	1,339	-4.7%
TURKEY	53	59	2,191	1,153	-47.4%
VIETNAM	100	121	749	1,110	48.2%
TAIWAN	52	100	1,245	1,069	-14.2%
CHINA	47	65	813	696	-14.4%
NETHERLANDS	45	79	658	613	-6.8%
All Others	1,079	1,063	17,243	15,568	-9.7%
TOTAL	1,679	1,921	29,561	25,694	-13.1%

Based on final Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 1,898,000 net tons (NT) of steel in December 2018, including 1,679,000 NT of finished steel (down 20.4 percent and 12.6 percent, respectively, vs. November final data). For the full year of 2018, total and finished steel imports are 33,731,000 and 25,694,000 net tons (NT), down 11.5 percent and 13.1 percent, respectively, compared to full year 2017. Finished steel import market share was 19 percent in December and 23 percent for full year 2018.

Key finished steel products with a significant import increase in December compared to November were heavy structural shapes (up 20 percent) and line pipe (up 12 percent). Major prod-

ucts with significant increases for full year 2018 vs. full year 2017 include hot rolled sheets (up 22 percent) and plates in coils (up 15 percent).

In December the largest volumes of finished steel imports from offshore were from Germany (114,000 NT, down 9 percent from November final), Vietnam (100,000 NT, down 17 percent), South Korea (91,000 NT, down 53 percent), Japan (97,000 NT, down 16 percent) and Turkey (53,000 NT, down 10 percent). For full year 2018, the largest offshore suppliers were South Korea (2,764,000 NT, down 26 percent vs. full year 2017), Japan (1,383,000 NT, down 8 percent), Germany (1,339,000 NT, down 5 percent), Turkey (1,153,000 NT, down 47 percent) and Vietnam (1,110,000 NT, up 48 percent).

Former Lapeer Metal Stamping property to be cleaned up for use

A vacant, contaminated property in Sebewaing will be reused with help from the Michigan Department of Environmental Quality (MDEQ). A MDEQ grant awarded to the Huron County Brownfield Redevelopment Authority will pay for environmental costs to build new assisted living housing on the former Lapeer Metal Stamping property in downtown Sebewaing.

The MDEQ is spending \$1.5 million to demolish the last manufacturing building at Lapeer Metal Stamping and to remove the most highly contaminated soil. The \$286,043 MDEQ brownfield redevelopment grant will pay for more contaminated soil removal and demolition of old building foundations. Manufacturing at the property from the 1940s

until 2010 probably caused the contamination.

A local developer will invest \$2.5 million to build assisted living housing on a portion of the 6.6 acre site. The assisted living center will create up to 17 new jobs. Huron County and the village of Sebewaing expect that the rest of the property will be redeveloped with commercial and retail space.

The MDEQ partners with communities to protect public health and the environment and revitalize contaminated property. MDEQ grants and loans pay for environmental investigation and cleanup on brownfields. Brownfields are vacant or abandoned properties with known or suspected environmental contamination.

Ardagh leads beverage can recycling

Ardagh Group led a can recycling campaign throughout the Chicago area securing more than 4,200 lbs. of cans for recycling with proceeds donated to charity.

Ardagh has led this annual effort for over 15 years, mobilizing its 300 employees across 3 locations to collect cans throughout the year and bring them to their respective locations to be recycled. The company teams with United Scrap, which buys and recycles the cans, and Ronald McDonald House Charities® of Chicagoland & Northwest Indiana, which

applies proceeds from the recycled cans to keep families with hospitalized children together.

Overall, 75 percent of all aluminum ever produced is still in use today. Beverage brands also benefit from the package's filling, distribution and retail display economics with no waste space due to the ability to stack cans.

This year's campaign proceeds were donated to Ronald McDonald House Charities of Chicagoland and Northwest Indiana (RMHC-CNI).

■ For more METALS news, see Page B1



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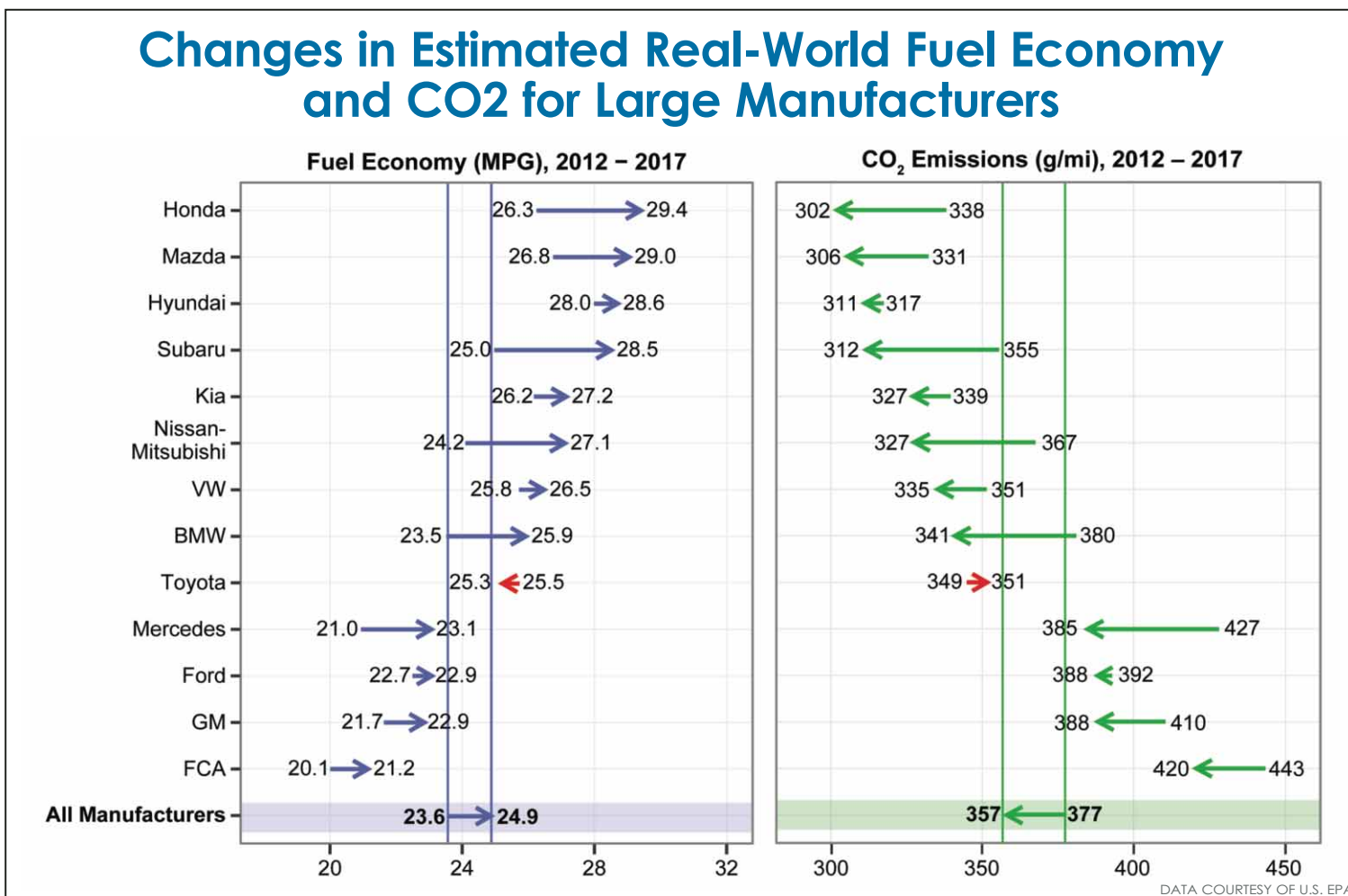
Honda leads in fuel efficiency in latest EPA Trends Report

Honda ranks as the most fuel-efficient automaker in America in a new report from the U.S. Environmental Protection Agency (EPA). Honda has the highest fleet average fuel economy and lowest CO2 emissions of any major automaker for the 2017 model year (MY2017), the latest year for which full data is available, according to the report.

The 2019 EPA Automotive Trends Report ranked Honda first with a U.S. fleet average fuel economy of 29.4 miles per gallon (mpg), a 5 year improvement of 3.1 mpg, and 4.5 mpg above the industry average for MY2017. Similarly, Honda's fleet-average CO2 emissions reached an industry low of 302 grams/mile, an improvement of 36 grams/mile from 2012 results and 55 grams/mile better than the industry average for the 2017 model year.

"Honda is proud to play a leading role in the move toward a more efficient, low-emissions mobility future and it's encouraging to see the industry as a whole making significant gains, despite low fuel prices and the market trend toward trucks and SUVs," said Robert Bienenfeld, assistant vice president of Energy and Environmental Policy for America Honda Motor Co., Inc. "There's a lot of work still to be done, but with record sales and production of Honda electrified vehicles and more planned, we are committed to continue improving our fuel economy performance."

In 2018, Honda set new records for sales and production of electrified vehicles in America, spurred by the introduction of the 2019 Insight hybrid sedan at the Greensburg, Indiana plant, and the start of production of the redesigned 2019 Accord Hybrid in Marysville, Ohio. The company added production of its two-motor hybrid power unit in Russells Point, Ohio, and assembly of the hybrid battery packs for



both the Insight and Accord Hybrid at its Marysville, Ohio plant.

The Honda Clarity series of vehicles, which launched in 2017 and now features battery electric, fuel cell and plug-in hybrid variants, has also contributed to the company's increased alternative fuel vehicle footprint and reduced CO2 emissions. The 50 state Clarity Plug-In Hybrid topped all other plug-in hybrid models in total U.S. sales in December, January and February.

Globally, Honda intends for two-thirds of its automobile sales to be electrified vehicles by 2030.

Honda is working to reduce the environmental impact of its products throughout their life cycle, including reducing

waste, emissions and further improving the energy efficiency of producing, distributing and selling Honda and Acura products in North America. This includes a 93 percent reduction in waste sent to landfills from Honda plants in North America.

Scrap Metals MarketWatch

Commodity	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton \$289.00	274.00	298.00	325.00	360.00
#1 Bundles	per gross ton 299.00	250.00	310.00	320.00	364.00
Plate and Structural	per gross ton 298.00	272.00	276.00	319.00	330.00
#1 & 2 Mixed Steel	per gross ton 225.00	259.00	245.00	305.00	315.00
Shredder Bundles (tin)	per gross ton 158.00	179.00	182.00	175.00	195.00
Crushed Auto Bodies	per gross ton 158.00	179.00	182.00	175.00	195.00
Steel Turnings	per gross ton 90.00	94.00	97.00	154.00	153.00
#1 Copper	per pound 2.63	2.65	2.64	2.71	2.68
#2 Copper	per pound 2.55	2.53	2.45	2.37	2.49
Aluminum Cans	per pound 0.70	0.70	0.63	0.64	0.53
Auto Radiators	per pound 1.65	1.49	1.72	1.69	1.65
Aluminum Core Radiators	per pound 0.63	0.57	0.47	0.44	0.43
Heater Cores	per pound 1.10	1.10	1.21	1.19	1.33
Stainless Steel	per pound 0.57	0.56	0.51	0.53	0.54

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

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

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AUTOMOTIVE

Three auto parts companies settle with EPA

The U.S. Environmental Protection Agency (EPA) announced settlements with three automotive parts manufacturers, headquartered in California, for violations of the Clean Air Act. The companies allegedly manufactured or sold aftermarket auto parts that bypass or disable required emissions control systems, otherwise known as defeat devices. The three companies will pay more than \$890,000 in penalties.

Cars and trucks manufactured today emit far less pollution than older vehicles. This occurs through careful engine calibrations and emissions con-

trols in exhaust systems such as catalytic converters and diesel oxidation catalysts. Aftermarket defeat devices bypass these controls and cause higher emissions. EPA testing has shown that these devices can increase vehicle emissions substantially.

This announcement highlights three separate administrative settlement agreements:

Car Sound Exhaust System, Inc., dba as MagnaFlow manufactured and sold 5,674 aftermarket exhaust systems intended for model years 2001-2007 diesel trucks that enabled removal of

diesel oxidation catalysts. The company, headquartered in Oceanside, California, will pay a penalty of \$612,849.

Flowmaster, Inc. sold 446 aftermarket exhaust system parts for motor vehicles that enabled the removal of catalytic converters on light duty gasoline vehicles. The Nevada company, headquartered in Santa Rosa, California, will pay a \$270,000 penalty.

Weistec Engineering, Inc. manufactured or sold 110 aftermarket exhaust components for light duty gasoline vehicles that enabled the removal of catalytic converters. The company also developed and sold 13 custom files which allowed for the removal of catalytic converters by disabling certain emission-related trouble codes. The company, headquartered in Anaheim, California will pay a penalty of \$8,500.

Adesa launches VirtuaLane Auctions

Adesa, a business unit of global vehicle remarketing and technology solutions provider KAR Auction Services, Inc., has launched VirtuaLane auctions. VirtuaLane is a live in-lane auction experience that utilizes technology to create a safe, virtual marketplace for Adesa customers at its physical auction locations. VirtuaLane has launched at 20 Adesa locations in North America.

Dealer customers attending a VirtuaLane sale participate in the same bidding process as in a traditional in-lane auction. However, instead of cars physically driving through the auction lanes, big-screen monitors showcase the vehicle and its features during bidding. Before the bidding, customers can view the vehicle in person and have access to detailed condition reports, photos, valuation tools and transportation options.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

You can't make it on your own!

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

You are unlikely to achieve maximum success on your own. You need people to like you and want to see you do well. When others like you, they can buy into your goal, and you get everyone pulling on the oars at the same time, the same way. Your results will be catapulted to success, because you will use the leverage of others. When others are bought into your goal, and like you, you can delegate to them, which allows you to work on other initiatives or new ideas. The ability to work on initiatives concurrently allows you to do so much more. My friends used to say that I threw 100 ideas at the wall, and only a few stuck, but they were humdingers. Having others helping you will free your mind to be more creative and teach you to be more collaborative.

If your banker really likes you, he's more likely to loan you money. It's almost a certainty that you won't have enough of your own money to reach your goals; you need leverage. You need your attorney to like you so that he takes your call and handles documents for you on a Saturday for a Monday last-second deadline.

The list goes on and on. You need a reputation for being fair, generous, transparent and honest, while being direct. People appreciate directness with some diplomacy. My old employees at the company I sold have

told me many times they wish I was back there, because they always knew where they stood with me, versus the public company where they don't feel as valued or as well informed. I always chuckle and remind them that they've forgotten how many times I changed commission plans or made new work rules they didn't like.

And one other thing, you will struggle to reach financial success unless you stop being cheap. You should be a bootstrapping entrepreneur and be prudent with your money. But no one likes someone who is cheap. We've all got one of those friends who tries to get the last nickel out of every deal. Make sure that you always buy the Girl Scout cookies from the mom who works for you or make a donation to the kid's softball team.

And I have a Ron's rule 101 for those who believe I owe them money. If they say I owe them money, (perhaps I disagree because they didn't do a job as agreed or they are just trying to rip me off by manipulating a misunderstanding), so long as it's not a large sum (say, less than \$10,000), I will pay. My rule is I would rather pay you what you say I owe you, and always be able to say you cheated me, than to ever have you be able to say I cheated you. If it is a dispute over a significant sum, we may need to meet at the courthouse to resolve it. Most disputes, however, are about small amounts of money. I am quick to point out, as I pay, that we will no longer be doing business, but I have paid you everything you said I owed.

Little things can haunt you, so take care of people, and they will be on your team forever.

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RUBBER

\$2.5 million awarded for scrap tire efforts and law enforcement

The Michigan Department of Environmental Quality (MDEQ) announced the funding of \$2,516,756 in grants to develop new uses for used vehicle tires and to support increased law enforcement activities within the city of Detroit.

These scrap tire grants support building sustainable markets for recycled tire materials in Michigan. Grants have traditionally included support for essential equipment and materials that aid in the establishment of new markets, implementation and testing of paving materials, energy generation, and other innovative approaches.

The 2019 funding will be used to support the following projects:

•Detroit Police Department (DPD) (\$232,000): The city of Detroit covers 142.9 square miles. The grant has three goals: the first goal is to increase DPD's capability to inspect tire shops independently of MDEQ; the second goal is to take preventative measures by purchasing and installing cameras at known dumping locations; the third goal is to prevent future dumping by raising awareness in the tire industry and the community.

•City of Mackinaw Island (\$61,772): Funds will be used for the development of a closed loop system for collecting, processing and utilizing waste glass generated on Mackinaw Island as aggregate for use

in road repairs, in conjunction with scrap tire rubber material containing GreenDeck Repair Solution (Renewable Infrastructure Solutions, LLC). GreenDeck material containing Michigan scrap tires and glass generated on Mackinaw Island will be utilized as aggregate to repair approximately 900' of Market Street and study how well it resists rutting.

•Cobalt Holdings, LLC (\$491,250): Funds will be used for expansion and processing improvements; including; replacing a 20 year old shredder, adding a second shredder, installing a new rasper and upgrading a cracker mill. Processing is estimated to increase monthly by 25 to 35 percent with these improvements.

•Entech, Inc. (\$1,237,561): Funds will be used for installation of two tire shredding systems and auxiliary equipment to process high wire chips. The chips will be processed into wire, tire derived fuel (TDF) chips and crumb rubber. Wire recovered from this process will be melted and sold as ingots to foundries in Michigan and other midwestern states. The facility estimates annual capacity of 50,000 to 70,000 tons of wire/chip production.

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

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PAPER

AF&PA updates paper reports for February 2019

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

Containerboard

Containerboard production decreased 1.8 percent compared to February 2018 and was down 1.4 percent year-to-date. The average daily production compared to January 2019 was 3.8 percent lower. The containerboard operating rate was 89.5 percent, 6.2 percentage points lower than the same month last year and down 3.9 points year-to-date. Production for export continued its steep decline and was nearly 30 percent lower than February 2018, dropping below 300 thousand short tons for the first time since May 2010.

Printing-Writing Paper Report

According to the February 2019 Printing-Writing Monthly report from the American Forest & Paper Association, total printing-writing paper shipments decreased seven percent in February compared to February 2018. Total printing-writing paper inventory levels increased one percent from January 2019. Net imports for the full year 2018 increased 26 percent compared to 2017.

•U.S. shipments of uncoated free sheet (UFS) paper decreased six percent in February from the same month one year ago. The inventory level of UFS papers remained essentially flat in February compared to January. UFS imports in 2018 increased six percent while exports finished the year 16 percent lower than 2017.

•U.S. purchases of coated free sheet (CFS) papers decreased ten percent in February when compared to February 2018. Inventories, meanwhile, remained essentially flat compared to last month.

•U.S. purchases of coated mechanical (CM) papers remained essentially flat year-over-year in February. U.S. shipments of uncoated mechanical (UM) paper decreased less than one-half of one percent in February.

Boxboard Report

Total boxboard monthly production decreased 0.8 percent when compared to February 2018. The total boxboard operating rate was 97.4 percent for February.

Total Solid Bleached Boxboard & Liner production was up 3.3 percent year to date; Recycled Boxboard production rose 2.6 year to date; and Unbleached Kraft & Gypsum declined 1.3 year to date.

U.S. Packaging Papers & Specialty Packaging

Total Packaging Papers shipments were down 3.3 percent from February 2018 and flat year-to-date.

Bag & Sack shipments were down 2.0 percent year-to-date; Multiwall shipments were up 4.4 percent; Food Wrapping shipments were up 0.9 percent; and Converting shipments were down 0.6 percent.

The operating rate for February decreased to 89.5 percent compared to 91.3 percent in January. Inventories remained essentially flat since January and were 3.4 percent lower than last year.

WASTE

DEC releases final report for Niagara Sanitation Landfill

Confirms no off-site exposure to contaminants

New York State Department of Environmental Conservation (DEC) Commissioner Basil Seggos announced DEC has completed its report detailing the comprehensive investigation of the Niagara Sanitation Landfill in the town of Wheatfield. The report includes the results of DEC's expanded sampling of surface soil, subsurface soil, sediment, surface water, and groundwater at the site, which confirms that landfill contaminants do not present an off-site exposure concern to neighboring properties.

Commissioner Seggos said, "DEC works closely with communities across the State to investigate contamination and take all necessary actions to protect public health and the environment. The report on our comprehensive investigation of the Niagara Sanitation Landfill finds no off-site exposure to landfill contaminants. Governor Cuomo directed DEC to aggressively investigate this site to ensure the public is protected and provide this community with peace of mind that there is no off-site contamination."

DEC's additional investigation of this site included:

•Collecting 39 on-site surface soil samples across the landfill property, and 26 off-site surface soil samples from properties adjacent to the landfill, including 22 residential properties. Off-site sample results indicate there are no off-site impacts in surface soils. On-site surface soil sampling results indicate much of the landfill surface has not been, or is minimally, impacted by landfill contaminants. Certain small and isolated areas of the landfill where results exceeded soil cleanup objectives were identified and will be addressed as part of the next step in the cleanup process, where various remedial alternatives will be identified and evaluated.

•Digging 18 test trenches and installing 13 machine driven and 52 hand driven borings around the perimeter of the landfill to confirm the boundary of the waste disposal area. These trenches/borings verified that waste disposal areas do not extend beyond the landfill property boundaries, except for an area of municipal waste placed along the gas line right-of-way to the west of the landfill property.

•Collecting 63 groundwater samples from 43 monitoring wells installed in and around waste materials buried in the

landfill. Groundwater samples collected from the perimeter of the landfill property demonstrate groundwater is minimally impacted by low-level contaminants typical in urban areas. These low levels are not a public health concern because there is no exposure pathway. Community residents are served by a public water supply and do not use water drawn from private wells.

•Collecting 11 surface water and 10 sediment samples from low-lying areas on and immediately adjacent to the landfill. Sampling confirmed that surface water and sediment are not significantly impacted by landfill contaminants.

•Collecting 58 samples of subsurface soil and waste on the landfill property. Various metals and polycyclic aromatic hydrocarbons (PAHs) were detected at concentrations typical of former municipal and industrial dump sites.

DEC is currently evaluating alternatives for long term management of waste within the landfill.

The Niagara Sanitation Landfill, which operated from 1955 to 1968, accepted various wastes from the surrounding community, including nearby industries. In 1968, the New York State Department of Transportation used a portion of the landfill to dispose of contaminated soils generated during construction of the LaSalle Expressway. These soils were later determined to be contaminated by Love Canal waste.

DEC and the State Department of Health (DOH) performed several investigations of the site in the 1980s and 1990s, which determined the site did not pose a significant threat to public health and the environment. DEC initiated a reevaluation of the landfill in 2013, and discovered that on-site areas of exposed waste and elevated surficial contaminant concentrations were present, necessitating a reclassification to a Class 2 Superfund site in December 2015. The reclassification requires a full comprehensive remedial investigation be performed at the site. Occidental (formerly Hooker Chemical) entered into a Consent Order with DEC and voluntarily removed the Love Canal-related waste in 2014 and 2015 for disposal at an approved, out-of-state facility. The town of Wheatfield completed construction of a perimeter fence around the landfill to limit unauthorized access and potential exposure to surface soils.

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WASTE

Executive director of SWACO offers update on recycling and waste in Central Ohio

From Ty Marsh, executive director of the Solid Waste Associate of Central Ohio (SWACO):

Looking back at 2018, it's clear that SWACO and Franklin County had some significant achievements.

First, the Ohio Environmental Protection Agency granted us a "Permit to Install," which will help to ensure that Franklin County residents and businesses have access to landfill space for another 30 years. As our population continues to grow, planning for the safe disposal of waste continues to be a top priority for SWACO. In fact, we built and opened a new cell in the landfill which began accepting waste this past December.

Second, SWACO helped Franklin County reach its highest-ever recycling rate. Now at 49 percent, the recycling rate means we're diverting from the landfill nearly half of all the waste we create each day. That's fantastic news, as it's one of the highest rates in the Midwest. But there's plenty of room for improvement since nearly 70 percent of waste that comes to the landfill has the potential to be recycled.

SWACO launched a couple of initiatives in 2018 to help increase waste diversion through recycling and other means. We rolled out our Recycle Right, Make a Difference campaign with paid media, a new microsite, and household mailers. We also kicked off the Central Ohio Food Waste Initiative, convening dozens of organizations from central Ohio to address the issue. The group contributed to the creation of a Food Waste Action Plan, which is scheduled to be released

by the end of the first quarter.

Third, we released our 2018 Economic Impact Study, which showed how recycling not only helps extend the life of the landfill, but also promotes economic growth and positions central Ohio as an ideal location for companies that care about a community's sustainability. Moreover, the report affirms that recycling and re-use creates jobs. More than 370 businesses in central Ohio rely on the recycling and re-use industry. These companies generate \$1.5 billion in revenue and support more than 5,000 jobs with a payroll exceeding \$235 million.

Looking ahead, we're excited about the initiatives we have planned for 2019. We will be helping 38,000 Franklin County households advance to 65 gallon wheeled recycling carts. The new, larger carts, made possible in part through a grant from The Recycling Partnership, will help increase recycling and reduce litter. We will also be working to find markets for certain types of waste that can be viably sorted, to identify startup companies that could locate on SWACO property, and to advance a solar project on the closed Model Landfill. Lastly, we plan on developing a strategy to reduce the carbon emissions for assets managed by SWACO.

As our population continues to grow, planning for an increase in waste and diversion will be critical to keeping disposal costs low, preserving landfill space, reaching a greater rate of diversion and supporting a strong local economy.

We look forward to achieving all of this together.

Oxygen tank explodes in NYC

New York City Sanitation Commissioner Kathryn Garcia reminded New Yorkers to never place harmful products with regular garbage collection after a small oxygen tank caused a small explosion in the hopper of a collection truck in Manhattan's Upper West Side. Two sanitation workers were slightly injured.

"Improper disposal of materials like small oxygen tanks, automotive materials, flammables and electronics is not only illegal, they can contaminate our waterways and seriously harm sanitation workers and landfill employees," Garcia said. "Hazardous materials have the potential to cause a violent chemical reaction and ignite. They should be safely disposed and never be placed in the garbage."

The incident caused minor injuries to two sanitation workers who were

taken to a hospital. Upon investigation, an improperly discarded small oxygen cylinder was found inside the collection truck's hopper by DSNY's Environmental Police Unit.

DSNY offers multiple ways to properly and safely dispose harmful materials. They have special waste drop-off sites in all five boroughs that are open throughout the year, and they host SAFE Disposal events in the spring where residents can bring unwanted electronics and hazardous materials.

The DSNY website also has a Pharmaceutical/Sharps Drop-Off site map showing locations where residents can bring their unwanted medicines and syringes. Medical devices like small oxygen tanks can also be exchanged when purchasing a new one.

Republic reports increased growth

Republic Services, Inc. reported net income of \$301.0 million, or \$0.92 per diluted share, for the three months ended December 31, 2018, versus \$664.4 million, or \$1.98 per diluted share, for the comparable 2017 period. Excluding certain benefits and expenses, on an adjusted basis, net income for the three months ended December 31, 2018, was \$260.0 million, or \$0.80 per diluted share, versus \$203.8 million, or \$0.61 per diluted share, for the comparable 2017 period.

For the year ended December 31, 2018, net income was \$1,036.9 million, or \$3.16 per diluted share, versus \$1,278.4

million, or \$3.77 per diluted share, for the comparable 2017 period. On an adjusted basis, net income for the year ended December 31, 2018, was \$1,014.9 million, or \$3.09 per diluted share, versus \$822.2 million, or \$2.43 per diluted share, for the comparable 2017 period.

Fourth quarter and full-year highlights:

- Fourth quarter adjusted EPS, a non-GAAP measure, was \$0.80 per share, an increase of 31 percent over the prior year.

- Full year adjusted EPS was \$3.09 per share, an increase of 27 percent over the prior year.

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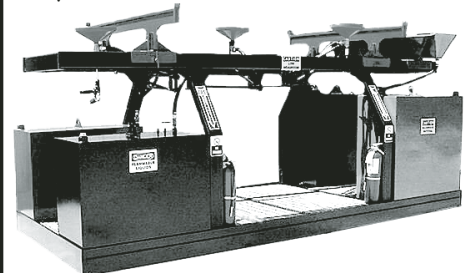
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BUSINESS BRIEFS

Recycle Track selected as waste manager in La Porte

■ Recycle Track Systems (RTS), a waste and recycling management company, announced the City of La Porte, Indiana, has selected RTS to provide waste services for approximately 7,500 service locations. The arrangement will harness the company's intelligent fleet management technology for all the city's residential and governmental collections.

The La Porte partnership marks the company's expansion into municipality services, where RTS' digital solutions will play a significant role in advancing the city's operations and connect local, independent haulers to the community. This move also gives RTS a greater presence in the Midwest having already established itself servicing businesses in Chicago.

Under the agreement, RTS has deployed their tracking platform in each truck which will allow the company to better serve residents by managing service appointments real-time and offer post-trip analysis to optimize collection routes and customer response times city-wide.

Steve Sliver named as MPART executive director

■ The Michigan Department of Environmental Quality (MDEQ) announced that Steve Sliver has been named as executive director of the Michigan PFAS Action Response Team (MPART).

A 32 year veteran of state government, Sliver is the former assistant director of MDEQ's Waste Management and Radiological Protection Division. Sliver was assigned to MPART in April 2018 where he served as MDEQ's senior representative within the organization. In that role, Sliver led several major MPART initiatives, including the recently completed sampling of public water systems and schools throughout the state for PFAS.

Sliver takes over from former MPART executive director Carol Isaacs who retired at the end of 2018.

MPART was the first-of-its-kind PFAS taskforce in the nation when it was launched in 2017 through an executive directive by then Governor Rick Snyder. MPART was reestablished by Governor Gretchen Whitmer in 2019 through Executive Order 2019-3 which made MPART a permanent advisory body within MDEQ.

PFAS compounds are a group of emerging and potentially harmful contaminants used in thousands of applications globally including firefighting foam, food packaging, and many other consumer products. These compounds also are used by industries such as tanneries, metal platers and clothing manufacturers.

A Spanish magician had a grand magical show and at the end he said he'll disappear after counting to three.

He started to count, "Uno, dos..." Kazaam! He vanished without a trace.

Caterpillar makes executive officer changes

■ Caterpillar, Inc. has made several changes in responsibilities for three executive office members.

Tom Pellette became the senior vice president. After four years as group president separately leading the construction industries and energy & transportation segments, Pellette has elected to return to San Diego, California for family reasons. Pellette will serve as president of Solar Turbines, a wholly owned subsidiary of Caterpillar and a global leader in the design, manufacture and service of gas turbine systems and compressors for the oil and gas and power generation industries. He previously spent more than 20 years in the division. Pellette will also serve as strategic advisor to the Caterpillar executive office.

Ramin Younessi, currently group president of energy & transportation, will transition to lead construction industries. Younessi, with more than 30 years of leadership inside and outside of Caterpillar, will now have responsibility of the company's earthmoving, excavation, building construction products, China operations and global construction & infrastructure divisions, as well as global rental and used equipment services.

Billy Ainsworth, current senior vice president of the Caterpillar rail division and chief executive officer of progress rail, will now become the group president of the energy & transportation segment. Since 2017, Ainsworth has served as strategic advisor to the Caterpillar executive office in addition to his responsibilities for the rail division.

Joe Creed, current vice president of Caterpillar's finance services division, will become the new vice president of the oil, gas and marine division. He also most recently served as interim chief financial officer for the company. Prior to his leadership in Caterpillar's finance functions, Creed worked in the company's engine and machine businesses.

Pablo Koziner, current vice president of Caterpillar and president of solar turbines, will become the new vice president of the electric power division. He has nearly 20 years of experience in various roles around the world, the last six as a vice president.

Caterpillar's board of directors has appointed Marty Haycraft to succeed Ainsworth as vice president of Caterpillar's rail division and chief executive officer of progress rail. Haycraft is currently the president of progress rail's global operations where his primary responsibilities include overseeing the company's rolling stock and infrastructure businesses.

Kyle Epley has been appointed vice president of the finance services division. He currently serves as corporate controller where he has responsibility for business analysis, competitive analysis, economics, strategic planning and operating and execution model governance.

Epley joined Caterpillar in 1996 and has held a series of positions with growing responsibilities in accounting and finance, including global assignments.

BUSINESS BRIEFS

Adesa names new leader of product development

■ Adesa, a business unit of global vehicle remarketing and technology solutions provider KAR Auction Services, Inc., announced that Kurt Madvig has been named vice president of product development. Madvig will lead a team focused on the development, launch and delivery of products, services and solutions that streamline and enhance the Adesa customer experience.

Madvig brings 30 years of automotive remarketing industry experience to his new role. He joined the KAR organization as an auction general manager in 2001 to establish and develop Adesa Long Island. Soon after its launch he was transferred to Adesa San Diego, where he achieved double-digit revenue growth. Madvig continued to grow his career at Adesa, most recently serving as vice president of auction operations, where he played an integral part in the opening of Adesa's Chicago location.

Joining the Adesa product development team under Madvig's leadership are Eddie Ammar, Jason Murdock and Colleen McCormick-Shankle. Ammar, senior director of protection products, will oversee Adesa Assurance and the development of additional protection products. As director of inspection services, Murdock is responsible for ensuring thorough inspections as well as creating new inspection offerings. Senior project manager McCormick-Shankle will oversee new product launches and implementations.

Vandenbroek elected as chair of compost network

■ At its annual meeting, the general assembly elected Kristel Vandenbroek as new chair of the European Compost Network (ECN).

Vandenbroek, representing the Flemish Compost and Digestate Association, Vlaco in ECN, will lead together with the vice chair Massimo Centemero, representing the Italian Composting and Biogas Association, the ECN in the next three years. Besides the new leadership, two further candidates were elected on the ECN board: Alin Murariu, representing the Romanian Compost Association and Jens Måge, representing Avfall Norge in ECN.

During his four year chairmanship, ECN has been recognized as the voice of the biological treatment sector in Brussels and Europe. With the achievement that separate collection of bio-waste (or separated and recycled at source) will be obligatory in all member states by December 2023, bio-waste management will play a great role in developing a circular economy in Europe.

One Source Parts updates facility and processes

■ One Source Parts is implementing facility and process improvements to provide its customers an even higher level of service. The company moved to its location in Cynthiana, Kentucky in 2015.

One Source Parts changed the material flow in its facility, and plans are underway to install LED lighting and integrate robotics in specialized applications.

Resource Recycling Systems finalizes new hires

■ Resource Recycling Systems (RRS) announced that Elisa Seltzer and Shaun Spalding have joined the RRS team as senior consultants.

Seltzer is the former public works director for Emmet County, Michigan where she designed, implemented, and oversaw the county's self-funded resource recovery program. During her 30 year tenure with Emmet County, Seltzer helped the county reach a diversion rate approaching 50 percent, spearheaded the successful bin-to-cart transition for 6 municipalities, and managed a regional facility that included a material recovery facility (MRF) providing recycling processing services in a hub and spoke network of 5 counties, a transfer station, and a compost facility.

Seltzer also collaborated with private haulers and government stakeholders, oversaw the solid waste management planning process, developed markets for many hard-to-recycle materials, and developed and oversaw the residential and commercial curbside routes and drop-site recycling sites in Emmet and four partner counties.

In her role as an RRS senior consultant, Seltzer will focus on assisting communities in developing and improving recycling and composting programs, cultivating public-private partnerships, and strategically connecting the right resources to move communities toward zero waste and sustainability goals. Seltzer will operate out of Michigan's northern lower peninsula near Mackinaw City.

Shaun Spalding is a certified engineering technologist and environmental professional in waste management. Over his 19 year career, Spalding has worked in the public and private sectors improving operational service delivery, developing program and material specific strategies, creating master plans, and conducting material stream composition studies across Canada and the U.S. His career has included working with a large urban Ontario municipality, a private sector gas-to-energy company, and various consulting engineering firms.

Spalding will be working with public and private sector clients as an RRS senior consultant focusing on recovery infrastructure development including MRFs, transfer stations, and organics recovery sites, in addition to program and service level reviews, operational plan development, and compositional assessments. Spalding will operate out of Ontario, Canada.

Harvey and Call reelected to NWRA board of trustees

■ The board of trustees for the National Waste and Recycling Association (NWRA) reelected Ben Harvey as chairman and Dave Call as treasurer.

Harvey is the president of EL Harvey in Westborough, Massachusetts. Call is the senior vice president for business development at Republic Services.

AEM elects directors to AG and CE sector boards

■ The Association of Equipment Manufacturers (AEM) has elected Johannes Schulze Vohren, regional president North America for Wacker Neuson, to the AEM CE sector board and Jeremy Yoder, executive vice president and chief operating officer of DISTek Integration Inc., to the AEM AG sector board to fill unexpired terms.

AEM officers and directors come from an industry cross-section and work cooperatively on behalf of the entire membership. They provide strategic direction and guidance for Association initiatives that help members and the industry succeed in an ever changing business environment. Key action areas include advocacy and public affairs, market information, exhibitions and events, and safety, regulatory and technical issues.

Schulze Vohren joined Wacker Neuson in 1994 and has held a variety of management positions including sales and product support for the U.S. international markets, business systems and information technology and logistics. He has also worked in consulting and in international sales at Case IH and Tenneco Automotive.

Yoder joined DISTek in 1998, serving many roles, including vice president engineering before becoming executive vice president and chief operating officer. He has more than 20 years of experience developing software solutions for the AG and construction equipment industries.

Global Foil Rollers re-elects Gungör as president

■ Assan Alüminyum's managing director Göksal Gungör has been re-elected to serve for a two year period as the president of Global Foil Roller Initiative (GLAFRI) during the 5th Global Aluminum Foil Roller Conference in Dubai, UAE.

Gungör has been serving on the board of GLAFRI since 2016 and has served as the president since the beginning of 2018.

GLAFRI is an international association, with 61 members in 26 countries worldwide (including North and South America, Europe, Asia, Africa and the Middle East), representing approximately 55 percent of the global aluminum foil production. GLAFRI globally coordinates actions on sustainability in order to support market growth and promote innovative development.

Scherr appointed to board of directors of SMA

■ The Sustainability Management Association (SMA) has appointed Lindsay Scherr to the board of directors and will serve as a director.

Lindsay is a LEED® Accredited Professional O+M and a certified U.S. Zero Waste Business Associate. She holds a M.S. from the University of Michigan in Natural Resource & Environment with a concentration in Sustainable Systems and a B.S. in Geology from the University of Delaware.

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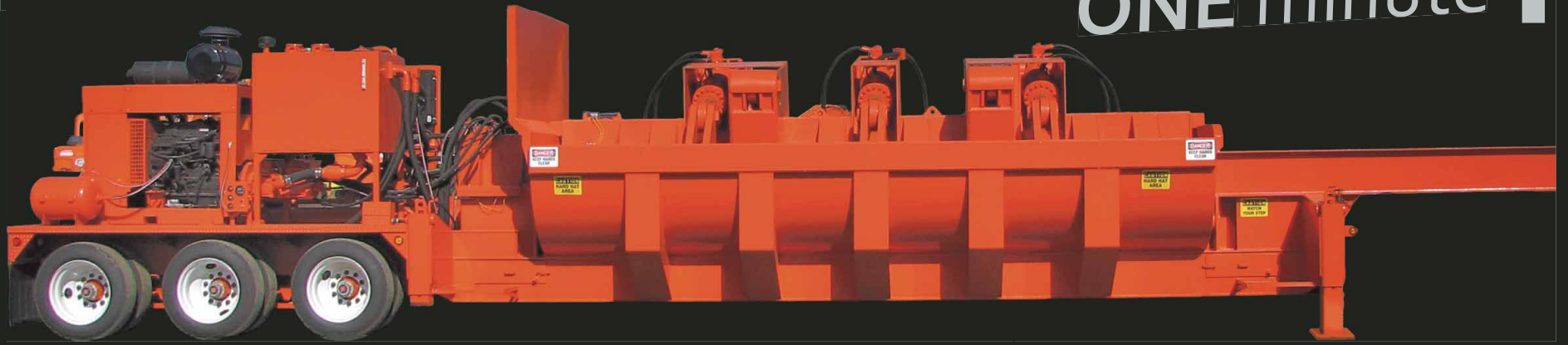
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The global scrap metal market stabilizes

by MAURA KELLER

mkeller@americanrecycler.com

The global steel market today is stabilizing somewhat. It is often featured in financial news because the steel industry is considered an American mainstay. But, as Kenneth Amenduri, chief executive officer of FutureMoneyTrends.com stated, there's one facet of the steel market that's underappreciated and underreported – scrap metal, which is rarely covered but deserves attention.

As Amenduri explained, much like global steel prices generally, scrap metal prices have been deeply impacted by the ongoing trade tensions between the U.S. and China.

“Unless there is an unforeseeable change in policy, President Trump is still planning to introduce metal tariffs for imports into the U.S.,” Amenduri said. “This, naturally, will have a sizable effect on the scrap metal trade. Pretty much anything is possible at this juncture, and speculators are predicting everything from a better scrap metal market to higher prices for consumers.”

Michael Jenny, who has more than 15 years of experience in the scrap metal and recycling industry and is managing director of investment banking firm Livingstone, has seen a lot of consolidation and strong transactional activity as well as greater global reach across the board.

“The market's evolution is a direct response to market demands and future opportunity,” Jenny said. “Recycling is the first link in a global supply chain – to become a vital part of the supply chain, your value lies in how much supply you can get in a region on a consistent basis. This model naturally lends itself to value in scale. The greater your supply and the more expansive your geographical reach – the more important you are to the supply chain.”

Generally speaking, 2018 was a big year for mergers and acquisitions (M&A) in the metals space. Led by 3 mega-deals, the market experienced a 113 percent growth in average deal size and 68 percent of that deal value

involved an acquirer within the Asia and Oceania region.

“Though political headwinds may have played a role in creating a slightly more challenging deal environment in 2018, we anticipate consolidation to continue into 2019, fueling the market's continued evolution, particularly in the Asia and Oceania region,” Jenny said.

Trade policy and China's shifting perspective on scrap imports is causing the industry to change a little bit as U.S. owners are looking to other countries, like Turkey and India to export to. And as Jenny explained, as a result of these shifting tailwinds, the U.S. has received more inbound interest from international players who are keen on looking at assets to strengthen their U.S. domestic presence.

“Here again, we anticipate continued consolidation to make an impact on the market,” Jenny said.

As Amenduri further explained, while the current scrap metals market evolves, what we do know is that, with the possible exception of Canada and Mexico, any countries that bring in raw steel or aluminum into the U.S. would be charged a tariff.

“This would discourage steel exporters like China. American companies that use the scrap metal from international companies would suffer a financial blow and would need to find ways to adapt,” Amenduri said.

But as Jenny explained, tariffs, like anything, move commodity prices and cause a disruption in the market. The companies that are more agile and nimble to react to the change are poised to benefit.

“Tariffs are also driving American companies to become more innovative in finding new markets to export to and new innovations to maximize metal recovery from scrap. This is driving overseas companies to look at ways they can increase their presence in the U.S.,” Jenny said.

Clearly, this is the top concern among scrap metal recyclers worldwide



One of the current challenges to scrap metal recyclers is contamination when dealing with separating recyclable steel from various construction materials during building demolition. PHOTO BY GELLINGER | PIXABAY

and it's keeping the market in what might be called a wait and see phase. “Still, the international scrap metal business remains resilient, with a 2018 year over year growth rate estimated at 2.65 percent and a CAGR of over 3 percent,” Amenduri said.

On the Horizon

If macro-political and -economic factors don't get in the way, Amenduri stressed that the scrap metal business should experience incremental growth through 2022. “Don't let this projection

See SCRAP STABILIZES, Page B6

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NICHE Chemical finalizes fused magnesia business

NICHE Chemical LLC, the specialty products and chemicals division of New Day Aluminum Holdings LLC, has acquired Imerys Fused Minerals Hull Ltd. from Imerys UK Limited, a subsidiary of Imerys SA.

The acquired business, which will be renamed NICHE Fused Magnesia Limited, is located in Hull, England and operates facilities producing a number of specialty magnesia products used in the electrical, friction, ceramic, automotive and refractory industries.

The acquisition is the company's first move into the United Kingdom,

complementing its existing fused alumina business in LaBathie, France.

David D'Addario, chief executive officer of New Day, commented, "We are excited at the opportunity to acquire the Hull business, which is consistent with our strategy to further expand our product portfolio and geographical footprint."

This business is also an excellent fit for the expansion of our newly-branded NICHE specialty products business while providing a growing European platform for New Day."

Nucor Corp completes two mill upgrade projects

Nucor Corp. has completed a project at an Ohio bar mill and is preparing to launch another at an Alabama plate mill, according to the Primetals Technologies.

Nucor Steel Tuscaloosa, Inc. has selected Primetals Technologies to upgrade its plate mill in Alabama. The upgrade includes a new downcoiler of the Power Coiler type with four wrapper roll design, which will enable this facility to produce heavier line pipe gauges for the energy industry. The project is scheduled for completion in the first quarter of 2020.

The downcoiler is capable of handling 1.25" thick low-carbon-grade steel

and 1" thick line pipe grades, at up to 102" wide. The scope of supply also includes run out tables, new coil handling area, inspection line with shear, hydraulics, banders, markers and an upgrade to the Level 1 automation system.

In Ohio, SMS group said Nucor has issued the final acceptance certificate on a new walking beam furnace at its Marion bar mill.

According to SMS group, Nucor signed the certificate soon after commissioning as the furnace quickly hit its guaranteed performance targets. SMS said the furnace is the most energy-efficient furnace within Nucor's fleet.

Recyclers applaud police efforts to reduce theft

As a sign of both the need to reduce metal theft, and its strong working relationship with the Institute of Scrap Recycling Industries (ISRI) and other recyclers, the International Association of Chiefs of Police recently passed a resolution calling on law enforcement agencies to recognize recyclers as partners, use tools such as ScrapTheftAlert.com, and utilize resources developed by ISRI.

"Working with law enforcement and other community partners is paramount to stopping metals theft," said Brady Mills, director of law enforcement outreach for ISRI. "Metals theft is not something police can prevent by themselves, and it is not something recyclers can do single-handed either. It takes a solid working relationship, and an understanding of each of our roles, resources, and operations to be successful. Through consultation, education, and cooperation we have seen success. We will continue to build on our relationship with the IACP and every level of law enforcement to ensure continued success."

The Resolution acknowledged the efforts of the recycling industry "to work with law enforcement on metals theft by forming a Law Enforcement Advisory Council, conducting metals theft workshops, and providing other educational materials ..."

Upon passage in November 2018, the Resolution:

Resolved, the International Association of Chiefs of Police (IACP) calls upon all Law Enforcement agencies to recognize scrap metal recyclers as partners; take advantage of law enforcement specific tools and resources developed by ISRI; and disseminate metals theft prevention techniques through community crime prevention programs; and, be it

Further resolved, the IACP encourages all Law Enforcement agencies to use

the web-based scrap metal theft alert system which can be accessed at www.ScrapTheftAlert.com or other web-based sites that are globally available to alert recyclers of stolen scrap metals.

"Metals theft is a very serious crime that often goes beyond just property damage," said Chief Paul M. Cell, president of the IACP. "We have witnessed a precipitous increase in the number of metal thefts and in the enormity of the theft of metals. To effectively fight metals theft, cooperation and communication is needed among all stakeholders in the community. Where we have seen the most success is where recyclers and law enforcement work together. That is why the IACP adopted the Reducing Metal Theft resolution in 2018 to bring awareness to the issue, promote partnership between recyclers and law enforcement, and to encourage police to use the web-based scrap metal theft alert system by the Institute of Scrap Recycling Industries, Inc. and others other web-based sites that are globally available to alert recyclers of stolen scrap metals."

ScrapTheftAlert.com is an online tracking system created by the scrap industry to report stolen materials throughout the U.S. and Canada. The system allows law enforcement, corporate security personnel, and victims of metals theft, to post alerts that are emailed to users within a 100-mile radius of the theft location. The more than 19,600 alerts posted through the portal have resulted in a number of success stories including the identification of suspects and the recovery of more than \$2.8 million in stolen material.

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

Canada offers support for over 2,100 Canadian steel workers

The Government of Canada is delivering on their commitment to support the Canadian steel manufacturing sector and its workers.

The Honorable Ralph Goodale, Minister of Public Safety and Emergency Preparedness, on behalf of the Honorable Navdeep Bains, Minister of Innovation, Science and Economic Development, announced a \$40 million investment in a \$112.6 million project that will create 35 jobs and maintain 2,100 more in Regina, Saskatchewan and Red Deer, Alberta.

This investment will help EVRAZ North America Inc. make numerous upgrades to its facilities in western Canada and increase its competitiveness in serving the oil country tubular goods (OCTG) market while decreasing emissions and the overall carbon footprint of Canadian steel. This will enable the company to produce valued-added OCTG products that match Canadian market demand and make them available at a competitive price to

Canadian resource firms that, like EVRAZ, are facing shortages owing to the cost-prohibitive effects of U.S. tariffs.

The government's investments in Canada's steel and aluminum producers, such as EVRAZ, Algoma Steel Inc., ArcelorMittal, Alcoa Corporation and Rio Tinto Aluminum, are ensuring they continue to provide thousands of Canadians with good middle-class jobs and remain important contributors to our economy and manufacturing supply chains.

EVRAZ North America Inc. is the largest steel company in western Canada, making steel plate and coil, small- and large-diameter pipe, and oil and gas well tubing for the energy sector.

In 2017, the Canadian steel industry employed over 23,000 Canadians and contributed \$4.2 billion to Canada's gross domestic product. This industry is a vital supplier to the Canadian manufacturing, energy, automotive and construction industries.

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U.S. Department of Commerce initiates antidumping duty investigations of Canada, China and Mexico steel imports

The U.S. Department of Commerce announced the initiation of new antidumping duty (AD) and countervailing duty (CVD) investigations to determine whether fabricated structural steel from Canada, China and Mexico is being sold in the U.S. at less than fair value and to find if producers in Canada, China and Mexico are receiving unfair subsidies. These antidumping duty and countervailing duty investigations were initiated based on petitions filed by American Institute of Steel Construction Full Member Subgroup (Chicago, Illinois) on February 4, 2019.

In the AD investigation, Commerce will determine whether imports of fabricated structural steel from Canada, China and Mexico are being dumped in the U.S. market at less than fair value. The alleged dumping margins are 30.41 percent for Canada, 222.35 percent for China, and 30.58 percent for Mexico.

In the CVD investigation, Commerce will determine whether Canadian, Chinese and Mexican producers of

fabricated structural steel are receiving unfair government subsidies. There are 44 subsidy programs alleged for Canada, including tax programs, grant programs, loan programs, export insurance programs and equity programs.

There are 26 subsidy programs alleged for China, including tax programs, grant programs, debt restructuring programs, export subsidy programs, as well as the provision of goods and services for less than adequate remuneration. There are 19 subsidy programs alleged for Mexico, including grant programs, tax programs, export programs, and loan programs.

If Commerce makes an affirmative finding in these investigations, and if the U.S. International Trade Commission (ITC) determines that dumped and/or unfairly subsidized U.S. imports of fabricated structural steel from Canada, China and Mexico, are causing injury to the U.S. industry, Commerce will impose duties on those imports in the amount of dumping and/or unfair subsi-

dization found to exist. In 2017, imports of fabricated structural steel from Canada, China and Mexico were valued at an estimated \$658.3 million, \$841.7 million, and \$406.6 million, respectively.

During Commerce's investigations into whether fabricated structural steel from Canada, China and Mexico is being dumped and/or unfairly subsidized, the ITC will conduct its own investigations into whether the U.S. industry and its workforce are being harmed by such imports.

The ITC made its preliminary determinations on March 21, 2019. If the ITC preliminarily determined that there is injury or threat of injury, then Commerce's investigations will continue, with the preliminary CVD determinations scheduled for May 1, 2019, and preliminary AD determinations scheduled for July 15, 2019, unless these deadlines are extended.

If Commerce preliminarily determines that dumping and/or unfair

subsidization is occurring, then it will instruct U.S. Customs and Border Protection to start collecting cash deposits from all U.S. companies importing fabricated structural steel from Canada, China and Mexico. Final determinations by Commerce in these cases are scheduled for July 15, 2019, for the CVD investigations, and September 30, 2019, for the AD investigations, but those dates may be extended.

If Commerce finds that products are not being dumped and/or unfairly subsidized, or the ITC finds in its final determinations there is no harm to the U.S. industry, then the investigations will be terminated and no duties will be applied.

The strict enforcement of U.S. trade law is a primary focus of the Trump Administration. Since the beginning of the current Administration, Commerce has initiated 143 new antidumping and countervailing duty investigations – this is a 249 percent increase from the comparable period in the previous administration.

Stelco appoints new chief executive

David Cheney has been promoted to the helm of the Canadian steelmaker, Stelco. In a statement, Stelco said Cheney, who had served as executive vice president and chief business development officer, will oversee day-to-day operations as its chief executive officer.

Meanwhile, former chief executive Alan Kestenbaum will continue in his

role as executive chairman and turn his focus to corporate growth, strategic planning and maximizing shareholder returns. Prior to joining Stelco and Bedrock Industries, Cheney worked as an investment banker at J.P. Morgan and Deutsche Bank, and he was responsible for the metals and mining practice at Wells Fargo Securities.

January steel shipments up 5.8%

The American Iron and Steel Institute (AISI) reported that for the month of January 2019, U.S. steel mills shipped 8,079,757 net tons, a 3.5 percent increase from the 7,804,093 net tons shipped in the previous month, December 2018, and a 5.8 percent increase from the 7,636,321 net tons

shipped in January 2018. A comparison of January shipments to the previous month of December shows the following changes: cold rolled sheet, up 7 percent, hot dipped galvanized sheet and strip, up 5 percent, and hot rolled sheets, up 3 percent.

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EQUIPMENT SPOTLIGHT

Attachments

by MARY M. COX

maryc@americanrecycler.com

In managing a scrap metal recycling facility, there are a number of large tools that are needed to move, sort and process the materials so a profit can be realized.

Doosan® material handlers can be paired with grapples for scrap and recycling applications. The 360 degree hydraulic rotating four-tine grapples feature a semi-closed tine design, allowing a firm grasp on most materials. The tines are designed with AR400 high strength, abrasion resistant steel for increased durability, and the tine tips are replaceable for easier maintenance. A 5/8 cubic yard grapple is approved for use with the Doosan DX210WMH-5 and the DX225MH-5, while a 1 cubic yard grapple is approved for use with the DX300MH-5.

Doosan Infracore North America, LLC, headquartered in Suwanee, Georgia, offers the following Doosan products: Crawler excavators, wheel excavators, wheel loaders, articulated dump trucks, material handlers, log loaders and attachments. "With more than 150 heavy equipment dealer locations in North America, Doosan is known for unmatched dedication to service and customer uptime, and durable, reliable products. Doosan is fast becoming a global force in heavy construction equipment," Aaron Kleingartner, marketing manager, reported.



Doosan Infracore North America, LLC

Moley Magnetics' ESA 2-in-1 hydraulic Sorting Claw Magnets are designed to be easy to install, and also to dig, push and pull with extended scraping claws. Ron Slaby, vice president, sales, said, "The magnet's design allows you to save the time you would spend switching between attachments. For example, in a concrete recycling job where you would normally need a bucket to uncover rebar from concrete, you can keep the 2-in-1 Claw Magnet on the excavator without having to



Moley Magnetics Inc.

switch back and forth. This applies to moving other forms of dirt, gravel and debris, allowing access to metal pieces. One challenge that companies working in metal recycling often face is that most excavator magnets require generators, and the diesel generators necessary to power those magnets are expensive. If a company has ten excavators, sometimes only a few are equipped with generators. It's much easier to move a magnet from job-site to job-site rather than an excavator, especially when the magnet is designed to be small and compact enough to fit in the back of a pickup truck."

Slaby added that both the multifaceted nature of the magnet and its design contribute to saving time, energy and the overall hassle of dragging around extra equipment. The magnet's design also makes it easy to move on or off an excavator. Because the claw magnet is quick coupler-compatible, it allows for easy changes, eliminating the use of hammers to manually drive out and insert mounting pins for attachments. The ESA hydraulic magnets also don't require case drain lines or a priority flow control valve. "All of these factor together to create a very quick and easy installation to an excavator. Years of experience and dependable manufacturing led to a magnet that is both reliable and solves every-day problems in an innovative way," stated Slaby.

The focus of Pemberton Attachments is the scrap and recycling industry, waste, demolition and construction industries. The firm's staff members take pride in fast delivery of top quality products.

Tony Kaiser, territory manager, explained, "When it comes to the recycling market and grapples, think Pemberton. We deliver and we're fast. For

orange peel grapples, the Pemberton GY Series 4-tine grapple is second to none along with our other rotating grapple or a mechanical grapple – and we have them in stock. We're changing customer expectations of delivery from 'we can't' to 'yes we can, and fast.' We understand the market place and have the ability to react quickly to changes that develop there. For example, one of the biggest challenges for our customers today is a lack of the confidence in the market. This prevents them from planning for the long term. "When goods sit idle, it is difficult to justify the need to keep attachments on hand to manage inventory. We understand that attachments are never important until you can't get them."

Pemberton was founded in 1978 in Longwood, Florida by brothers, Todd and Bruce Pemberton and is still owned and operated by the Pembertons, along with the dedicated help of members of the second generation of their family. Todd and Bruce founded the company on the sound business model that quality and service are always a top priority. According to Kaiser, Pemberton offers the largest selection of attachments for wheel loaders, excavators and material handlers in the marketplace.



Pemberton Inc.

SAS Forks manufactures engineered touch solutions for the scrap metal processing and auto salvage industries. In a severe duty environment where forks and attachments for moving and processing scrap material and automobiles take constant abuse, zero downtime is a must. In the past year, the firm has also joined forces with Bultrite Manufacturing to serve the market. SAS president Adam Lindley

See ATTACHMENTS, Page B7

MANUFACTURERS

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Continued on Page B7

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Nespresso commits \$1.2M to recover aluminum from single use coffee capsules

Nespresso, the New York City Department of Sanitation (DSNY) and Sims Municipal Recycling (SMR) announced that Nespresso has made a \$1.2 million commitment to better enable the recovery of its aluminum coffee capsules through New York City's curbside recycling program.

In addition to capsules, the commitment will allow SMR to better sort and capture lightweight aluminum, including foil and other mixed metals. This collaboration makes it possible for these items to be turned into new products.

"Nespresso is deeply committed to the circular use of our products, choosing aluminum packaging because it both protects the quality of our exceptional coffees and can be recycled and reused again and again," said Guillaume Le Cunff, president and chief executive officer of Nespresso USA.

Nespresso has a continuous focus on developing innovative solutions to make recycling as simple and convenient as possible for consumers. Nespresso offers pre-paid UPS recycling bags in 48 states across the U.S. so that consumers can mail back capsules to be recycled.

The collaboration with DSNY and SMR will drive the Nespresso recycling efforts further and provide consumers with additional options. The funding from Nespresso will assist SMR in investing in the additional technology that is required to improve the efficiency

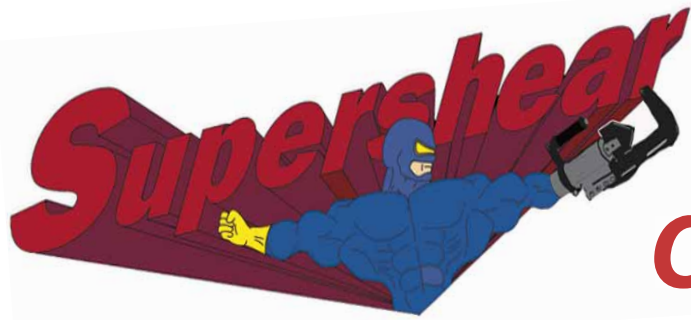
of its non-magnetic household metals recycling process, and help to reduce the amount of aluminum that ends up in landfill.

The equipment will be operational starting fall 2019, and residents across the five boroughs in New York City will be encouraged to recycle their Nespresso capsules as part of their regular recycling routine.

The collaboration will support New York City's Zero Waste initiative, which aims to contribute zero waste to landfill by 2030. A key component of the partnership will be to encourage New York City residents to recycle Nespresso capsules as well as the 43,000 tons of aluminum foil and other mixed metals that currently end up in landfill each year.

The Nespresso recycling program with UPS will continue to be available across the U.S. Consumers can bring recycling bags to one of 88,000 UPS drop-off locations or 500 collection points at Nespresso Boutiques and select retailers across the country.

Once capsules are collected, they are sent to recycling businesses that work closely with Nespresso, who separate the aluminum from the coffee grounds to give them a second life. The coffee grounds can be turned into nutrient-rich compost and topsoil. The aluminum is processed and, ultimately, reused to create new products.



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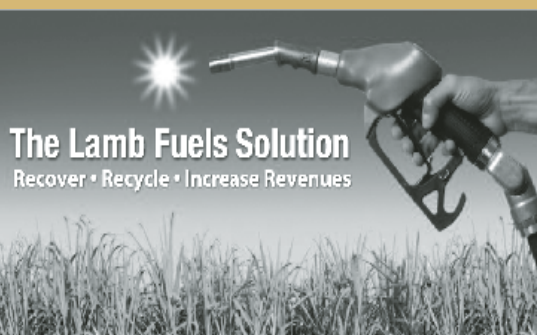


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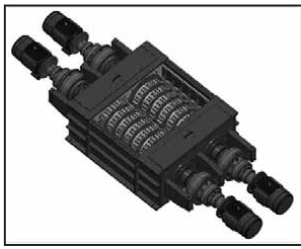
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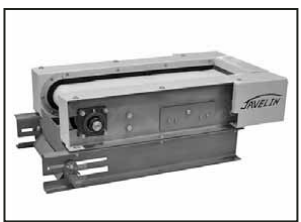
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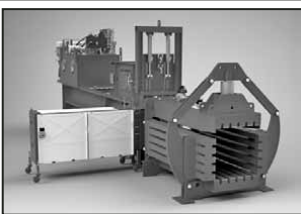


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Scrap stabilizes

■Continued from Page B1

lull you into a false sense of security, however, as scrap metal prices are known to be volatile and prone to factors that are far beyond the control of scrap metal dealers," Amenduri said.

So what issues should recyclers pay attention to? In addition to tariff concerns, the volume of supply and the scrap quality affects global scrap metal prices. "Like other commodities, steel and aluminum are impacted by supply and demand, and in the case of scrap metal, investors also must pay attention to the construction and automotive industries, among others," Amenduri said.

Another factor is the pace of innovation as it relates to the purification of scrap metal. For many years, the construction sector used asbestos in their buildings, plants and housing structures, chiefly due to its strength and thermal insulation properties.

As Amenduri explained, the release of asbestos fibers into the atmosphere was found to cause serious health hazards to occupants when these structures were demolished. Regulatory bodies are monitoring the construction teardowns of buildings that contain asbestos. "So now, vendors are looking at innovative methods to purify contaminated steel scrap obtained primarily from the construction sector," Amenduri said.

A major innovation continuing to take place within the industry is the use of technology to improve metal recovery from waste streams. As Jenny explained, this innovation isn't coming from one particular country but is instead being embraced industry-wide in order to get more money out of the waste stream.

And for the scrap metal recyclers themselves, more versatile and efficient scrap processing equipment can lower overhead and increase the bottom line for businesses while reducing costs for consumers.

According to Amenduri, the innovative trend in this area is to be found in SBLs, or shear/baler/loggers, the modern type of heavy-duty machine engineered specifically to provide scrap recyclers with the versatility to process both heavy metal materials and light metals.

"These innovations are crucial to the American and global economy, as

the scrap metals business provides jobs (over 450,000 jobs in the U.S. alone), generates tax revenue (\$10 billion in revenue for state governments), saves energy, provides for the conservation of natural resources and prevents scrap from getting into landfills," Amenduri said.

That said, the U.S. still lags behind much of the world in our UBC recycling rates. "In general, we need to increase our recycling rates – this starts at home," Jenny said. "The implementation of technology to help refine scrap metal recycling while driving productivity will continue to prime the market for disruption to define what success looks like in 2019."

Of course the amount of global scrap metal recycling that the U.S. is doing has been greatly impacted by the recent standards imposed by China, whereby for certain recyclable materials no more than 0.5 percent contaminants would be allowed – far below industry standards. As a result of China's ban, which became effective March 1, 2018, there has been a significant impact on the waste and recycling industry in the U.S. If this continues, many recycling businesses in the U.S. will end up shutting their doors.

But even worse, the environment could suffer as a result of China's unrealistic restrictions on imported recyclables. Here's why: According to the National Waste & Recycling Association (Nwra), the environment could be the biggest loser when recycling programs fail and manufacturers revert to using resource intensive virgin materials.

As a result of the impact China's ban is having on the scrap metal industry, the Nwra recently sent a letter to President Trump asking the president to address this issue with China's president Xi to "seek a mutually beneficial compromise that allows for the import of clean, high-quality recyclable materials vital to their manufacturing base." The Nwra stressed to President Trump that the fallout from this ban could have a devastating effect on recycling that may set the industry back decades.

"What the future holds for the scrap metals market, then, is growth, innovation, and above all, hope," Amenduri said. "This includes hope for a cleaner, less wasteful, and more sustainable global landscape where despite political and economic differences, jobs are plentiful and businesses can prosper."

Algoma appoints McQuade new chief executive officer

Algoma Steel Inc. has appointed Michael McQuade as chief executive officer of the company. McQuade, who is currently a director of Algoma, has more than 35 years of steel industry experience in a number of senior leadership positions.

Prior to becoming a director of Algoma in 2018, McQuade gained more than 35 years of progressive experience at Stelco Inc., a Canadian steelmaker, where he held a variety of roles in finance, accounting, operations, and

sales. McQuade became chief financial officer of Stelco in 2010 and its president in 2014. Michael McQuade holds a bachelor of mathematics degree as well as the CPA, CMA and Chartered director designations.

McQuade succeeds Kalyan Ghosh, who served as chief executive officer prior to and during the successful restructuring of Algoma's business in 2018 and has resigned from the company to pursue other opportunities.

Attachments

■Continued from Page B4

explained, “We strive to meet the needs of every customer. SAS grapple forks, buckets and rakes make processing white goods and loose scrap material a breeze, and leaving dirt on the ground where it belongs. Our large line of forks allows clients to customize their loader to fit the need in their yards. SAS long forks allow customers to move vehicles front to rear, minimizing damage to the body. Our new super bumpers hold a vehicle’s plastic front bumper off the carriage, reducing impact and damage caused by contact. SAS crushing forks are widely used for crushing, prying, loading and general movement of scrap as well as cars and trucks. Our railroad coupler allows loaders to move rail cars on the spur for easy loading without a locomotive.”

SAS wheel loader forks include carbody, 15.5 and 17.5’ forks, crushing forks as well as the SAS Scorpion engine puller, which pulls an engine and transmission in less than a minute, removes a dash with ease and allows the wire harness to be removed without loosening one bolt.

“We push the envelope of technology and brute strength. Our goal of constant internal manufacturing process and product improvement has helped grow our market footprint. As the market leader in forks and attachments in the automotive industry, we’re attuned to customer needs and develop products to help extract as much profit as possible from every car,” Lindley said.

The SAS extreme auto processor will completely process end of life

vehicles pulling the engine, transmission and complete wire harness without leaving the cab of the excavator. The Vulture wire extract, ideal in a late model yard application, allows a small mini-excavator or back hoe to remove leftover wire from dashes and engine compartments without risk of operator injury.



SAS Forks

Continued from Page B4

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SAS Forks

Adam Lindley

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Nucor reports record earnings

Nucor Corporation reported record consolidated net earnings of \$2.36 billion, or \$7.42 per diluted share, for 2018 compared to \$1.32 billion, or \$4.10 per diluted share, for 2017. The new earnings record of \$7.42 per diluted share in 2018 is a 24 percent increase as compared to the company’s previous record earnings of \$5.98 per diluted share reported in 2008.

Nucor reported consolidated net earnings of \$646.8 million, or \$2.07 per diluted share, for the fourth quarter of 2018. By comparison, Nucor reported consolidated net earnings of \$676.7 million, or \$2.13 per diluted share, for the third quarter of 2018 and \$383.9 million, or \$1.20 per diluted share, for the fourth quarter of 2017. Consolidated net earnings of \$646.8 million reported in the fourth quarter of 2018 represents the strongest fourth quarter performance in the Company’s history.

“The best way to sum up 2018 is this – it was a record year for Nucor. We posted record earnings per share and record revenue, and we shipped a record amount of steel,” said John Ferriola, Nucor’s chairman, chief executive officer and president. “Over the past decade, we have been positioning Nucor to take

full advantage of an upturn in the steel market. During that time, we invested more than \$9 billion to increase the Company’s peak earnings power. These investments enhanced our competitive strengths by building on our product diversity and market leadership positions. Our 2018 financial results demonstrate that Nucor’s disciplined strategy of investing for profitable growth is working.”

The average scrap and scrap substitute cost per gross ton used in the fourth quarter of 2018 was \$359, a 4 percent decrease compared to \$374 in the third quarter of 2018 and a 13 percent increase compared to \$317 in the fourth quarter of 2017. The average scrap and scrap substitute cost per gross ton used for the full year 2018 was \$361, an 18 percent increase from \$307 for the full year 2017.

The board of directors of Nucor declared the regular quarterly cash dividend of \$0.40 per share on Nucor’s common stock. This cash dividend is payable on May 10, 2019 to stockholders of record on March 29, 2019, and is Nucor’s 184th consecutive quarterly cash dividend.

Stelco and Canvass Analytics partner on AI software for steel operations

Canvass Analytics Inc. a global leader in AI software for intelligent industrial operations, has signed an agreement with Stelco, the owners of North America’s newest and most technologically advanced integrated steelmaking facilities, to use Canvass’s AI platform to transform its steel operations, improve yield and boost productivity.

BI Intelligence predicts that global manufacturers will invest \$70 billion on IoT solutions in 2020, up from \$29 billion spent in 2015. As IoT adoption in manufacturing accelerates, this leaves steel plants challenged with untapped real-time data being processed across legacy systems, devices and machines. Canvass Analytics leverages AI and Machine Learning to transform previously unconnected data into predictive analytics insights that improve key business metrics.

In many manufacturing processes, decisions are mostly based on institutional knowledge and limited data. Canvass

bridges the gap between workforce knowledge and curated IoT inputs to create an Intelligent Operations solution that minimizes energy consumption, increases throughout, reduces downtime and extends the lifetime of a plant’s assets.

Alan Kestenbaum, executive chairman of Stelco Inc commented:

“As a company that strives to deliver the market’s highest quality products in a cost competitive manner, we are continuously looking at how we can operate better. By partnering with Canvass Analytics, we are systematically transforming our facilities into intelligent operations environments and augmenting a digitally oriented workforce in order to take the efficiency of our operations to the next level. Canvass Analytics quickly demonstrated to us the usefulness of AI in certain areas of our operations and the potential of applying AI across our operations in order to increase our profitability and competitiveness.”

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