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ARN's Buyer's Guide launched in 2019 in a pull-and-keep section!



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Closing the loop on C&D materials

by MAURA KELLER

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As the construction and demolition (C&D) markets continue to expand across the nation, so do the issues facing the recycling of the materials used within the industry. According to the Construction & Demolition Recycling Association, more than 583 million tons of C&D debris was generated in 2015. Of that, wood waste makes up about 40 percent of the infed to mixed C&D recycling facilities.

As Marc Spiegel, co-founder of Rubicon and head of C&D Recycling Solutions, Rubicon Global said, “Companies that own landfills continue to fill them up instead of recycling material. Accordingly, much of the volume that could go for beneficial use is being landfilled. If this material was aggregated, markets would likely improve dramatically.”

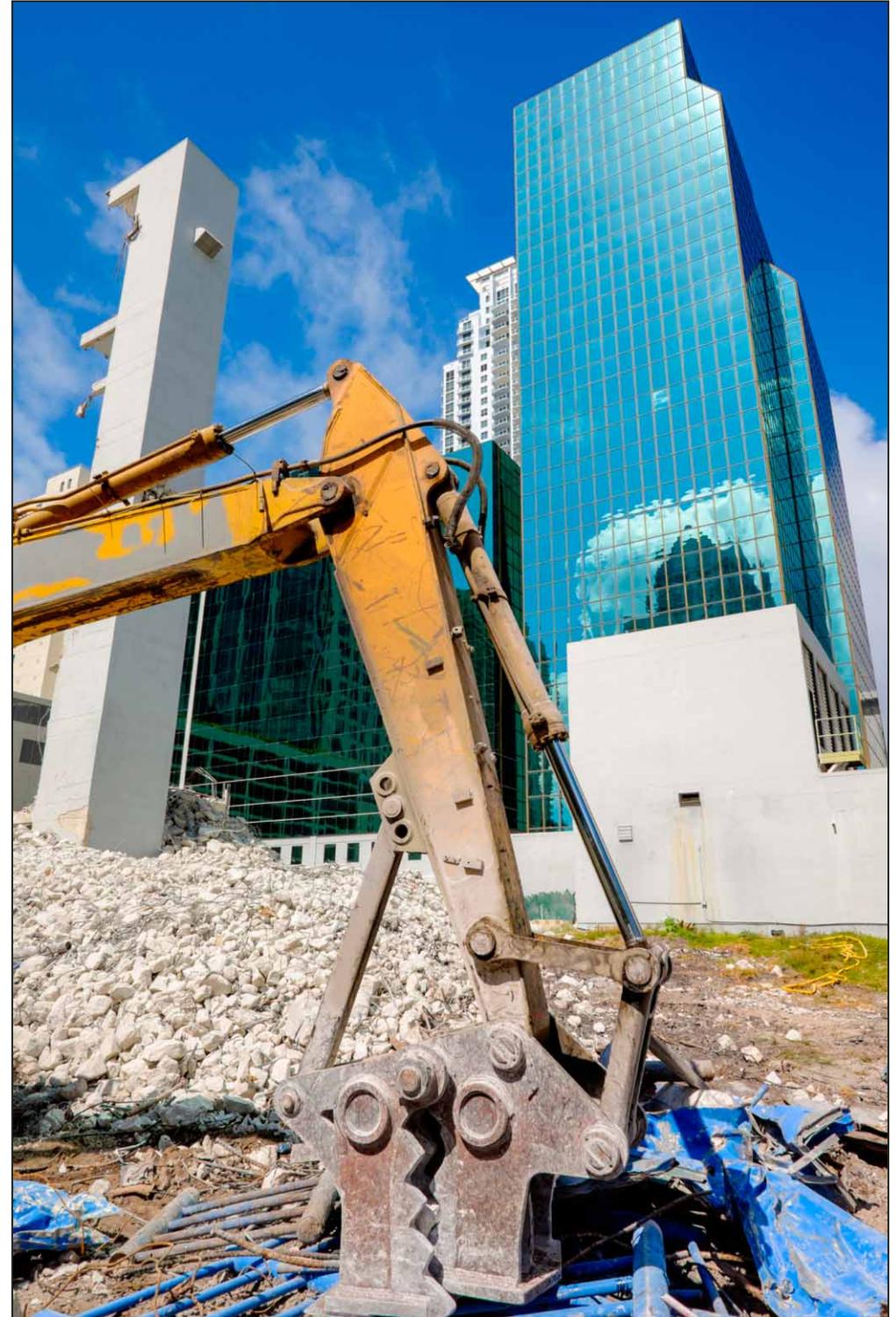
As Spiegel explained, the lack of dedicated C&D material at recycling facilities means that each commodity must have its own open top container to help prevent cross contamination and improve separation.

“This can significantly raise the hauling costs and account for additional hauls,” Spiegel said. “The low value of the commodities captured means that recycling could cost more than taking the material to the landfill. This is an issue facing the entire recycling industry, not only the construction and demolition segment. Landfill owners want communities to throw things away as opposed to recycling them.”

Divya Natarajan, senior consultant at Paladino and Company, which is a leading sustainability consulting firm that works with GCs, architects, owners and developers nationwide on projects ranging from typical 5/1 mixed use multifamily projects to high aspiration commercial towers and master plans, said one of the biggest issues of concern facing the C&D industry is often rooted in training and knowledge of what is available in the market.

“We’ve received calls from desperate construction managers who want to comply with waste regulations and certification requirements, but honestly have no idea where to start,” Natarajan said. “High turnover in the industry exacerbates this issue as institutional knowledge is lost with each regrettable turnover.”

Additionally, recycling standards and access to the waste vendors that perform recycling to those recycling standards can be spotty. That’s why Natarajan says there needs to be a commitment from the major general contractors to significantly reduce waste



Society is more aware of the impact construction projects can have on the environment. Construction companies are taking steps to reduce negative consequences. PHOTO BY FOTOLUMINATE | DREAMSTIME

and responsibly dispose of it, if the industry is going to benefit from enough market demand to drive improvements in recycling processes.

“Recyclable quality can be location-specific,” Natarajan says. “We see high quality recyclables in the Pacific Northwest, where sustainability is part of the local ethos, however other parts of the country are still developing their local knowledge about recyclability. When ‘good’ and ‘bad’ recyclables are combined, it can wreak havoc on the process.”

Ongoing Evolution

There have been some important changes to C&D recycling in recent years. Most notably, as society becomes more environmentally conscious, it is

essential that construction companies can demonstrate the impact of their activities and the steps they are taking to reduce their environmental impact.

“There is also a greater demand for accountability, with more clients demanding waste audits and specific information about where waste is taken and how it is being used,” Natarajan said.

Recycling is something that the median person wants. In fact, as Spiegel explained, the number of building and renovation projects that focus on recycling continues to increase.

“Companies would prefer to do something positive with the outputs rather than fill a hole,” Spiegel said.

See C&D MATERIALS, Page 4

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New York chooses poster contest winners

The New York DEC and the New York Recycles Steering Committee received over 250 entries from creative and inspiring K-12 students who care about the environment.

All winners have their artwork featured in the 2019 New York Recycles calendar. The committee will print 6,500 copies and distribute them across the state to recycling coordinators, educators, community groups and more to help increase awareness and educate people about the importance of waste reduction, recycling and composting.

The New York DEC is currently accepting posters until May 15, 2019. Check out the contest rules and submit a poster with one of the following themes:

- New York Recycles!
- Choose Reuse, Not Single Use!
- Worm Your Way into Composting
- Recycle Right
- Your Dream Green School

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

When the lodge meeting broke up, John confided to a friend. "Mike, I'm in a terrible pickle! I'm strapped for cash and I haven't the slightest idea where I'm going to get it from!"

"I'm glad to hear that," answered Mike. "I was afraid you might have an idea you could borrow it from me!"

EPA and law enforcement sentence defendants in explosive waste case

The U.S. Environmental Protection Agency (EPA) joined law enforcement partners from the U.S. Attorney's Office for the Western District of Louisiana, the Department of Defense, the U. S. Army, the Department of Transportation, the FBI and the Louisiana State Police in disclosing the sentencing of five defendants for their role in a case involving Explo Systems, Inc., a private company involved in the demilitarization of military munitions. Explo Systems' mismanagement of military munitions resulted in a large detonation at a storage facility in Camp Minden, Louisiana, on October 15, 2012. The explosion damaged buildings in a 4 mile radius, derailed 11 rail cars and was felt up to 35 miles away. In addition, an investigation revealed that Explo Systems had illegally disposed of hazardous waste resulting in over \$38 million dollars of cleanup costs to tax payers.

"Through their reckless mismanagement of waste explosives, the defendants put the safety of an entire town at risk," said EPA Office of Enforcement and Compliance Assurance Assistant Administrator Susan Bodine.

Explo Systems, Inc. is an explosives demilitarization and recycling company, which operated several facilities at Camp Minden, Louisiana, leased from the Louisiana Military Department (LMD). The U.S. Army awarded Explo Systems a contract on March 24, 2010 to dispose of 450,000 155mm artillery propelling charges designated as M119A2 for \$2,902,500. The Army and Explo Systems officials later amended the contract on

March 6, 2012 to dispose of 1,350,000 M6 propellant charges for \$8,617,500. The contract required Explo Systems to properly store and dispose of the demilitarized propellant, which is a solid, granular, explosive material. The contract also required Explo Systems to document the sale of the demilitarized propellant by completing an End User Certificate (EUC). On the EUC, the purchaser of the demilitarized propellant certified the purchase and compliance with applicable federal laws, including the Resource Conservation and Recovery Act.

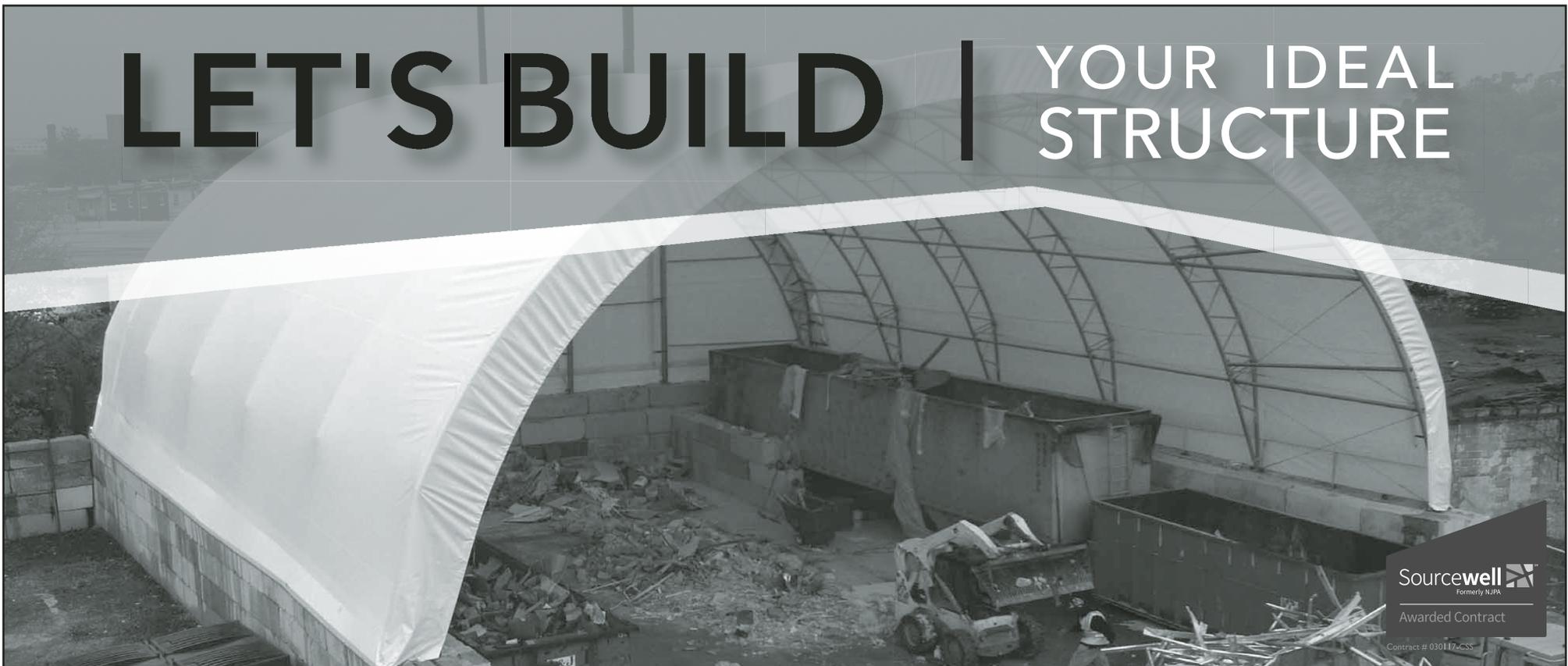
Defendants, all employed by Explo Systems, conspired from January 2010 to November 2012 to defraud the U.S. by submitting false EUCs to the U.S. Army Joint Munitions Center (JMC). Instead of selling the explosive material as indicated by the false EUCs, the hazardous waste was disposed of in unpermitted facilities, including public landfills, and improperly stored, which resulted in a large explosion and the evacuation of the Town of Doyline. Explo Systems illegally disposed of approximately 47 truckloads of reactive hazardous waste containing explosives to public landfills across Louisiana and Arkansas. Not only did officials at Explo Systems defraud the government about the disposal of the explosive material but they also moved and improperly stored propellant to hide the improper storage from government officials. Lower-level employees were instructed to hide and conceal improperly stored demilitarized propellant and reactive hazardous waste from government officials during inspections. The

total costs paid by the taxpayers to ensure the proper destruction and remediation of the propellant and hazardous waste which EXPLO illegally stored on site exceeded \$38 million.

For their role in a criminal conspiracy that led to the October 2012 explosion at Camp Minden, U.S. District Judge Elizabeth E. Foote presided over hearings and sentenced these five Explo Systems defendants: co-owner David Alan Smith of Winchester, Kentucky; vice president of operations William Terry Wright of Bossier City, Louisiana; director of support technology Charles Ferris Callihan, of Shreveport, Louisiana; demilitarization program manager Kenneth Wayne Lampkin of Haughton, Louisiana; and traffic and inventory control manager Lionel Wayne Koons of Haughton, Louisiana.

Through the work of EPA's Criminal Investigation Division and their state and federal law enforcement partners, including the Defense Criminal Investigative Service (DCIS), the U.S. Army Criminal Investigation Command – Major Procurement Fraud Unit (USACID-MPFU), the U.S. Department of Transportation – Office of Inspector General, the Louisiana Department of Environmental Quality – Criminal Investigations Section, and Troopers from the Louisiana State Police Emergency Services Unit, the defendants were held accountable for their actions which endangered communities, defrauded tax payers, and resulted in multi-million dollar hazardous waste cleanup sites across Louisiana and Arkansas.

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C&D materials

■Continued from Page 1

“LEED certification efforts also have improved the sustainability development and design of buildings and the increased demand for recycling, but the markets still have tremendous growth potential for many of the materials generated.”

Challenges Aplenty

There are a myriad of challenges that C&D players face as it relates to recycling. As with all recycling – and construction and demolition is no different – there is an “ease of use” challenge in the industry when you can just toss something in a dumpster and forget about it.

The impact that trash has on the environment, on a landfill and on the planet will be detrimental in the long term if we don’t shift our thinking away from landfill models.

According to Spiegel, the construction and demolition industry faces challenges because of the value of some materials, and then the additional challenge of finding buyers for the commodities that are collected.

“In some spaces, an incomplete puzzle is being put together,” Spiegel said. “We believe that data can help put the puzzle together and improve this market.”

Recycling is a well understood concept but can be difficult to put into practice. Commingled recycle bins are the most common way construction sites collect waste, but this significantly degrades the quality of recyclables. For example, as Natarajan explained, glass gets broken, extra lengths of wood or metal get contaminated with dust, and drywall disintegrates if not stored properly. This prevents construction materials from being reused to their highest potential.

Additionally, each construction site only generates a small amount of a particular material at a time, which makes it difficult for vendors to collect waste in significant quantities unless it is aggregated on site.

“This issue is further aggravated in dense urban areas like New York City, where there is no space onsite to house segregated waste systems or containers for more than a day or two, necessitating vendors to collect waste from multiple sites at a time,” Natarajan said.

Eddy Martinez, marketing director at A List Builders said construction and demolition material and debris recycling is currently a burden on contractors because it costs more, therefore they find that many companies don’t go out of their way to recycle unless it is a requirement.

Cities such as Santa Monica require a deposit from contractors that is only returned after a contractor shows them proof that they sent all debris through a recycling facility before it is sent to the dump.

“This places a burden on the contractor because it is a significant fee depending on the size of the project and is only returned after final inspection is completed,” Martinez said.

Martinez said that the main reasons for not recycling in projects where it is not a requirement are:

- Significantly higher price from regular roll-off dumpster services to comparable recycled roll-off dumpster services

- Shortage of dumpster companies that provide small recyclable dumpsters (most companies only provide 40 yard bins or 5 gallon bins for recycling, no in between sizes)

- Short duration of time allotted with dumpster (most dumpster companies only allow you to keep the dumpster one to two weeks before charging a daily limit, which limits the amount of time the dumpster can be used)

Key Materials

There are specific materials that are more readily or easily recycled than others. For example, metal – especially steel – can be endlessly recyclable.

“In fact most structural steel is composed of up to 75 percent recycled material,” Natarajan said. “Similarly, concrete can be recycled easily, and its most common use is to be turned into gravel or road material.”

On the other hand, one of the toughest materials to recycle effectively is drywall/gypsum board. This is because of its multiple components, issues in transport, and potential additives (older drywall may contain asbestos and other toxins).

“When using gypsum as a soil amendment, paper, paint and other additives need to be removed and the quality of material assured,” Natarajan said. “Each new construction site gen-

erates about 12 percent of its drywall as waste, so this is a material that needs better solutions.”

As Spiegel further explained, “Metal continues to be the most easily recycled material in the construction and demolition space, and continues to have value in the market.”

In addition, reclaimed wood from older buildings and developments continues to see value in the secondary market, being repurchased ‘as is’ for its character and history, and the feeling it gives the purchaser that they are helping the environment.”

The two main products made from recycled C&D wood are mulch and compost, or biomass. For C&D biomass, the U.S. Environmental Protec-

See C&D MATERIALS, Page 6

Events Calendar

February 24th-27th

The 32nd Southeast Recycling Conference & Tradeshow (SERC). Rosen Centre Hotel, Orlando, Florida. 800-441-7949
www.southeastrecyclingtradeshow.com

February 25th-28th

SWANApalooza 2019. Hynes Convention Center, Boston, Massachusetts. 800-467-9262 | www.swana.org

March 9th-12th

CDRA 2019. New York Marriott at the Brooklyn Bridge, Brooklyn, New York. 866-758-4721 | www.cdrecycling.org

March 11th-14th

Association of Plastic Recyclers Membership Meeting. Gaylord Resort and Convention Center, National Harbor, Maryland. 202-316-3046 | www.plasticsrecycling.org

March 20th-21st

Northeast Recycling Council Spring Workshop. Chase Center, Wilmington, Delaware. 802-254-3636 | www.nerc.org

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 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

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Virginia Recycling Association recognizes successful programs



The Virginia Recycling Association (VRA) honored several exemplary waste reduction and recycling programs.

Awards were given in three categories:

- Show Me the Way – how do you explain recycling to your customers?
- Lemonade – how have you made something wonderful from a bad situation?
- Best in Show – how has your program made a difference in your community?

This year's award winners, selected from 14 applications, represented a diverse group of recycling advocates in Virginia from local government to a non-profit organization and an educational institution.

Show Me the Way award winner, Virginia Aquarium & Marine Science Center in Virginia Beach won for its "In Our Hands" campaign to significantly reduce the use of single use plastics. As a part of this 18 aquarium partnership campaign to reduce plastic pollution and the harm it causes to waterways and marine life, the Virginia Aquarium has eliminated the provision of plastic bags in its retail operation and is eliminating the use of single use cups, straws and beverage bottles in its food service operation. Notably, the aquarium retail store stocks reusable cups with straws and reusable straws. More information about this movement can be found at www.ourhands.org.

The University of Richmond "Big Yard Sale" was the winner of the VRA's Lemonade Award. Every year, thousands of pounds of furniture, clothing, school supplies, and non-perishable food items are left behind at the end of each spring semester. Rather than send these items to the landfill, for the past 21 years, the University of Richmond Office of Sustainability teams up with the local Sierra Club and Goodwill to collect and sell items left by students at an event called the "Big Yard Sale." Proceeds from the sale are split

between the Sierra Club and student sustainability groups at the University of Richmond. Any items left at the end of the sale are donated to Goodwill.

This program is no small time lemonade stand. More than 1,000 people from the community came to shop at the May 2018 sale. While so many thousands of unwanted items could create a tremendous amount of waste each year – more than 12 tons were diverted from the landfill in 2018. The "Big Yard Sale" has its own Facebook page and information about other University of Richmond (UR) sustainability efforts can be found on UR's website, search under "sustainability."

Like the other winners, the Best in Show award was earned by a program that partners with others to make a big impact. Spotsylvania Environmental Education Development's (SEED) "Clean Up & Cash In" program is a partnership between Spotsylvania County and Spotsylvania County Schools to help student clubs and teams earn funds to help offset cost of uniforms, fees and supplies needed for activities.

The "Clean Up & Cash In" program requires groups to pick up roadside litter and separate the recyclables. It also provides awareness to students and families about litter prevention, recycling and the impact litter has on the community.

Groups earned \$5.00 per bag of roadside litter/recyclables and at an end of school year Winner's Recognition event, an additional cash prize was awarded to the top three groups filling the most bags.

The Virginia Recycling Association is proud to spotlight these creative, yet



Warren and Detroit receive grants to fund curbside carts

The Department of Environmental Quality (DEQ) officials announced \$575,000 will be awarded to the cities of Warren and Detroit to support the purchase of curbside recycling carts through the 2018 DEQ Recycling Infrastructure Grant program.

The 2018 Recycling Infrastructure Grant assists communities with improving recycling collection infrastructure; this initiative is a part of Governor Rick Snyder's ongoing commitment to increase recycling in Michigan.

The city of Warren will receive \$500,000 to support the purchase of 25,000 recycling carts, and the city of Detroit will receive \$75,000 to support the purchase of 7,000 recycling carts.

Grant funds were matched at a rate of over 130 percent and represent a total cart infrastructure investment of more than \$1.3 million.

This investment will result in increased recovery of recyclable material, growth in resident participation and the opportunity for recycling education in both cities.

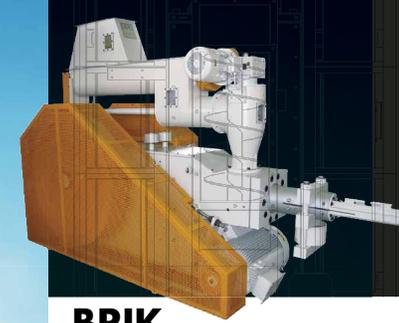
Even with recent recycling market disruptions, the majority of Michigan communities are recognizing the many benefits recycling provides and are not only staying the course to maintain recycling programs, but are further investing resources toward improved services for their residents.

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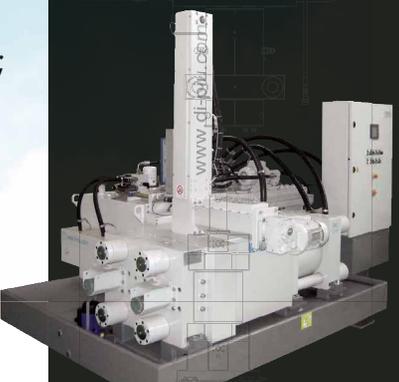
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Bandit completes ownership transition

Bandit Industries finalized its transition to a 100 percent ESOP (employee stock ownership plan) company on November 1.

Former owners Mike Morey Sr., Dianne Morey and Jerry Morey announced their intention to sell the company in an ESOP over the summer of 2018, a move that was celebrated by Bandit's employees and customers. It ensures the successful corporate culture at Bandit will remain intact.

The ownership transition won't impact the day-to-day management of

the company. The management team that has been guiding Bandit for the last several years will remain in place under the ESOP.

In addition to growing in capacity, Bandit has also been expanding its worldwide dealer network and customer base, growing in virtually every market share. Bandit recently announced a joint venture with German company ARJES GmbH, a producer of slow-speed shredders and crushers, expanding into a new market.

C&D materials

■Continued from Page 4

tion Agency has recognized it as a legitimate fuel that is clean enough to be exempted from its Non-Hazardous Secondary Materials rule.

And according to the Asphalt Pavement Alliance, reclaimed asphalt pavement (RAP) can be recycled again and again; it never loses its value. It is estimated that recycling of asphalt pavements saves the American taxpayer more than \$2.5 billion per year. It also saves thousands of acre-feet of landfill space each year.

Because of the challenges that emerge within the C&D recycling industry, regulations are necessary. "The market has not driven the C&D industry to meet the required recycling benchmarks, so the more proactive the industry is, the less regulated it will be," Natarajan said. "Some global construction companies and businesses are required to report their waste and track their carbon/GHG impact of waste because they operate in areas of Europe where this is mandated. Most organizations do not track waste to the level that has consistently driven improvements in C&D – thus the regulations."

Cities around the country have made a commitment to the Paris Climate Accord, which are reflected in their climate action plans and legislative agendas. Overall, Natarajan said the C&D industry should be prepared to respond to laws designed to increase recycling rates, improve recycling efficiency, and divert materials from landfills.

"For example, Jared Polis, state governor of Colorado wants to make Colorado a recycling hub for the Rocky Mountain region,' and has prescribed several recycling focused initiatives. Initiatives like those will be reflected in new laws," Natarajan said.

Experts agree that there will be increased regulation pushing for waste separation, which is the most effective way to use recyclables at their highest value and salvage more materials to be reused rather than downcycled.

"As more cities and governments build waste separation into regulations, more waste can be rescued and

there will be lesser need to for virgin materials," Natarajan said.

On the Horizon

Spiegel said that many of the general contractors out there want to be environmentally friendly and want to work within recycling needs of communities. "In 2019, they will continue to look for alternative outlets for their metal, wood waste, cardboard, brick, drywall and concrete to try and fit into a circular economy model, and that's exciting to be a leader in these efforts," Spiegel said.

Landfill costs are continuing to rise over 2017 levels and that trend will only increase in 2019. That's why Spiegel said the construction and demolition industry will need to be creative in finding recycling solutions to not only stay ahead of landfill costs, but serve as good corporate citizens and map to new demands for sustainable and environmentally friendly recycling solutions.

"The last thing construction companies and contractors want is to explain to a developer why they chose to not do the right thing for the environment," Spiegel said. "2019 will continue to show the value put on doing the right thing continues to skyrocket. Nobody wants a black eye because they still believe in doing things the same way as 30 and 40 years ago."

Natarajan said C&D companies should be ready for increased public scrutiny. "The recycling trade issues with China and some high profile recycling fraud cases have heightened interest in the industry and bring added accountability," Natarajan said.

There also will be a spike in remodeling projects as the real estate industry adapts to high competition for development sites and investments and the job market stays strong in key markets.

"As a result, waste-to-energy will become more efficient and effective, along with higher standards for emissions from incineration systems," Natarajan said. "There will be more facilities that will combine composting and biogas, helping to generate clean energy as well as improving soils."

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Auto parts manufacturer fined for sales of pollution control bypass products

The U.S. Environmental Protection Agency (EPA) announced Gilbert, Arizona based Vivid Distributing will pay a \$200,000 penalty for violating the Clean Air Act. EPA alleges the company installed, manufactured and sold auto parts known as defeat devices, which bypass or render inoperative required emissions control systems.

Between 2014 and 2016, Vivid Distributing sold 443 aftermarket products designed to defeat the emissions control systems of cars and trucks. These systems increase emissions of harmful pollutants, including nitrogen oxide (NOx), which is associated with health problems, including heart and lung ailments like chronic bronchitis and asthma.

Cars and trucks manufactured today emit far less pollution than older vehicles. This is made possible through careful engine calibrations and the use of filters and catalytic converters in the exhaust system. Aftermarket defeat devices bypass these controls and cause vehicles to emit higher levels of emissions. EPA testing has shown that defeat devices can increase a vehicle's NOx emissions substantially.

The EPA also announced it has reached similar agreements with three Southern California companies for selling pollution control bypass equipment.

NJ DEP names environmental winners

The winners of the 19th Annual Governor's Environmental Excellence Awards were honored for various areas of environmental stewardship, from protecting water quality to improving access to electric vehicle charging stations and preserving natural resources, New Jersey Department of Environmental Protection Commissioner Catherine R. McCabe announced.

Among the honorees recognized were an urban group that promotes use of electric vehicles and has put charging stations in publicly accessible parking spots; an environmental organization that works with partner agencies to restore water quality and reduce flooding in highly developed areas of the Barnegat Bay Watershed; and a group that provides nonprofits with leftover office supplies and furniture from companies downsizing their space, instead of sending the items to landfills.

The DEP received 50 applications for this year's awards. A panel of judges reviewed and scored the nominations.

Winners include:

Richard J. Sullivan Award

Candace McKee Ashmun received the inaugural award for her more than six decades of service to environmental protection and conservation throughout New Jersey. Among her many accomplishments, Ashmun is a founding member of the Pinelands Commission

established in 1979 and served as a trustee for both the Coalition for Affordable Housing and the Environment and the Highlands Coalition. She served as board vice chair of the Fund for New Jersey and served on the State Planning Commission. She also served as executive director and was a three term president of the Association of New Jersey Environmental Commissions, which she helped establish.

Healthy & Sustainable Businesses

Pioneers, Chapter 99 and Ericsson: The Pioneers group partnered with telecommunications company Ericsson this year for a furniture giveaway that donated 110 tons of office furniture destined for landfills to 55 nonprofit agencies instead. The sustainability initiative was developed in 2013 by two women who believed downsizing companies could save office supplies and furniture for donation to organizations in need. The idea grew from a time when Ericsson and iconectiv, another telecommunications firm, each changed their workplaces to an open-space environment, eliminating the need for walls, file cabinets and desks with drawers.

Healthy & Sustainable Communities

Sustainable Downbeach and Surfrider Foundation, South Jersey Chapter: Sustainable Downbeach and the South Jersey Chapter of the

Surfrider Foundation partnered with residents, officials and organizations in Atlantic City, Longport, Margate and Ventnor to raise awareness of plastic marine litter and help ensure long-term protection of New Jersey's coastline and marine life. Their efforts included passage of a fee on single use bags in the City of Ventnor and a single use plastic ban in Atlantic County parks. Longport in 2015 approved a bag fee ordinance because of the partnership, and Brigantine is working with the groups to help pass an ordinance banning plastic bag use there. The group was integral in the 2017 passage of an ordinance banning intentional balloon releases in Atlantic City, Longport, Margate and Ventnor, and has petitioned the state for legislation on the matter.

Raritan Valley Community College in Branchburg, Somerset County, received a Certificate of Recognition for its performance in the annual New Jersey Charging Challenge. The school installed two dual-port Level 2 charging stations in its primary parking lot. College staff also conducted outreach activities related to the new charging stations, circulating emails about the stations to all students and employees, and posting information about electric vehicles at the college's website for campus transportation services.

Our family took shelter in the basement after hearing a tornado warning. My husband told everyone to stay put while he got his cell phone out of the car, in case the lines went dead. He didn't return for the longest time, so I went looking for

him. I was upstairs calling his name, when I heard our answering machine click on.

"Hi," a voice said. "This is Dad. I'm locked out of the house."



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PAPER

Municipalities form partnership for beverage cup recycling efforts

Recycling will increase as approximately two million U.S. residents can now recycle hot and cold paper beverage cups, thanks to a partnership with the Foodservice Packaging Institute (FPI).

By adding paper cups to its list of acceptable items for recycling, the city of Denver became the fourth FPI Community Partner – after Washington, DC, Chattanooga, Tennessee and Louisville, Kentucky. These four recycling programs have joined the ranks of leading U.S. programs like New York City, Seattle and San Francisco, where paper cups are also accepted for recycling.

“We spent five years researching real and perceived barriers to recycling real and perceived barriers to recycling foodservice packaging before launching our FPI Community Partner program last year,” said Lynn Dyer, president of FPI. “Our approach relies on strong end markets partnering with recycling processors and communities educating their residents to ensure these materials are recycled properly.”

Cities are selected by their location in relation to viable end markets and material recovery facilities (known as MRFs) that have the desire and capacity to recycle foodservice packaging items. The opportunities continue to grow, with 16 paper mills in the U.S. and Canada accepting poly-coated paper cups as part of commodity bales such as mixed paper or aseptic cartons.



Representatives from FPI, Alpine Waste & Recycling, Denver Public Works, and Sustana cut the ribbon between two purple recycling carts to symbolize Denver's acceptance of paper cups for recycling.

In Denver, the recycled cups are destined for Sustana's Fox River Fiber facility. The paper mill produces approximately 450 tons of de-inked recycled pulp per day and receives about 1.3 million pounds of post-consumer paper daily from its suppliers.

“There is valuable fiber in this material that can be used for other products,” said Jay Hunsberger, vice president of sales and marketing at Sustana. “This opportunity allows us to expand feedstock for paper cups.”

Enthusiastic MRFs are critical to the success of the FPI Community Partner program. Denver based Alpine Waste & Recycling processes over 30,000 tons of recyclables for the city each year. Alpine sought to grow the

quantity of carton bales it produces by adding other poly-coated feedstock. Paper cups were a logical choice.

More than a year after the launch, the original FPI Community Partner cities are evaluating how their programs have changed. All three cities reported increased recycling overall, decreases in residue, and stronger relationships with local MRFs and end markets.

New Community Partner Denver views adding paper cups as an opportunity to draw attention to its recycling program, which already accepts plastic containers and cups. The city has a goal of increasing its recycling rate to 34 percent, the national average, as outlined in Mayor Michael B. Hancock's 2020 Sustainability Goals.

PSI launches 2019 Scholarships

The Paper Stock Industries (PSI) Chapter has officially kicked off its 2019 academic scholarship program, with plans to give \$2,000 scholarships to eight students next year, matching its 2018 record.

The PSI scholarship program provides funds to select students who are dependents of employees in the recycling divisions of PSI Chapter member companies. Interested students now can review the 2019 scholarship requirements and access the new application here. The deadline for applications is March 31, 2019, and winners will be announced June 1.

“For more than 20 years, PSI Chapter scholarships have helped qualified students pursue higher education and achieve their academic dreams,” said PSI Scholarship Committee Chair Nini Krever of Wilmington Paper Corp. “These scholarships can change lives, and PSI is thrilled to be able to offer eight scholarships again next year.”

PSI supports its scholarship program through raffles, donations, and an annual fundraising bowling tournament, held in conjunction with the Paper & Plastics Recycling Conference North America.

For additional information on PSI's Scholarship Program, view this article on www.AmericanRecycler.com.

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PAPER

AF&PA releases paper reports

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

Containerboard

Containerboard production was up 0.5 percent compared to October 2017 and up 1.8 percent year-to-date.

The month-over-month average daily production compared to September 2018 was 1.5 percent lower.

The containerboard operating rate was 96.2 percent, 1.6 percentage points lower than the same month last year.

Production for export decreased 13.3 percent from September 2018 after three consecutive increases but was still up 1.0 percent year-to-date.

Printing-Writing Paper Report

According to the October 2018 Printing-Writing Monthly report from the American Forest & Paper Association, total printing-writing paper shipments decreased four percent in October compared to October 2017. Total printing-writing paper inventory levels decreased two percent from September. Imports of printing-writing papers in September increased four percent compared to September 2017 imports, while exports declined 27 percent compared to September 2017.

•Inventory of uncoated free sheet (UFS) paper decreased four percent in October from September, down to the lowest inventory level in at least seven years. Shipments declined two percent year-over-year in October. Exports of UFS papers decreased 43 percent in September compared to September 2017, the largest decrease in at least six years.

•Shipments of coated mechanical (CM) papers decreased by more than 10 percent year-over-year for the eighth time in 2018. Imports of CM increased

seven percent year-over-year in September.

•U.S. purchases of coated free sheet (CFS) paper in October increased for the first time since June 2017. Meanwhile, U.S. purchases of uncoated mechanical (UM) papers decreased ten percent year-over-year in October.

September imports of CFS papers increased 17 percent compared to September 2017, while imports of UM papers decreased three percent compared to last September.

Boxboard Report

Total boxboard monthly production decreased 3.9 percent when compared to October 2017 but increased 0.7 percent from September. The total boxboard operating rate was 95.4 percent for October.

Total Solid Bleached Boxboard & Liner production was up 2.7 percent year to date; Recycled Boxboard production declined 2.5 percent year to date; and Unbleached Kraft & Gypsum rose 2.3 percent year to date.

U.S. Packaging Papers & Specialty Packaging

Total Packaging Papers shipments were up 7.2 percent compared to October 2017 and up 3.1 percent year-to-date.

Bag & Sack shipments were up 6.0 percent year-to-date; Multiwall shipments were up 0.9 percent; Converting shipments were up 0.7 percent; and Food Wrapping shipments were up 2.5 percent.

The operating rate for October remained essentially flat at 95.6 percent compared to 95.9 percent in September. Inventories dropped 1.2 percent since September and were 5.3 percent lower than the same month last year.

INDUSTRY PROFILE

A Closer Look

by Donna Currie

James G. Murphy Co. Ray Gombiski • 425-486-1246

In 1970, James G. Murphy opened a little auction house in Washington state and “grew the company quite quickly through the late to mid-1980s,” according to Ray Gombiski, the company’s marketing director. James Murphy’s son, Tim, joined the business at about that time, and he is currently the company’s president.

That’s not the end of the family involvement. Tim’s sister, Julie, is chief financial officer and Tim’s son Colin has also joined the company and is now a vice president. Being related is not a guarantee of promotion, though. “Nothing comes easy,” Gombiski said. “When I started here, Colin was in the mud, setting up auctions with the rest of the crew.” Colin started at the bottom and he had to work his way up.

“We cut our teeth with small businesses and restaurants,” Gombiski said, but they have expanded over the years to include large businesses, banks, auto and truck fleets, government agencies and more.

The company has grown to include auction sites in Washington State, Oregon and Hawaii. They also conduct auctions all over the country at customer locations. The James G. Murphy Co. is one of the top 10 industrial auction houses in the country, and in 2001, James was inducted into the National Auctioneer’s Hall of Fame.

Gombiski actually became involved in the business because of an auction. He had been working for a boat dealership that had its assets seized during the economic downturn. Gombiski was contracted to liquidate those assets, and met the auction crew. “They liked me; they liked my personality,” he said, and he was offered a job. “They got me in an auction,” he joked.

The array of industries, individuals and items the company has auctioned is mind boggling, from meat packing plants to sawmills to trusts. Gombiski described it as “a pretty healthy mix.”

Every three years, the company handles an auction for the Department of Revenue where everything from collectible currency to artwork is auctioned off. A recent item sold at auction was a Picasso sketchbook.

The auction house had a little brush with fame when they conducted an auction following the bankruptcy of Michael Mastro, who was featured on the television show American Greed. At the time, that was the biggest bankruptcy case in the U.S. and the auction included everything from a chandelier that sold for over \$40,000 to all of Mastro’s suits.

Gombiski said that the variety is what keeps him interested in the business. One day he might be operating a slide show at an industrial plant, and the next he might be advertising an auction that will take place in Hawaii.

Since they do so many specialized auctions, he needs to target customers in specific industries who will be most interested in the equipment, so he scours their own mailing lists, he buys relevant lists, and he pores over media to find buyers, so the sellers will get the most they can.

While he looks for buyers who will use the equipment, “we have scrappers at every auction,” who will take machinery and products that have no usable value. “The floor price is scrap value,” Gombiski said, and since there are no minimums and no reserve prices, 99.9 percent of everything is sold. “When we walk out, the building is going to be broom-swept and ready to rent.”

While the goal is to sell everything, Gombiski also enjoys going into plants and “understanding how they work.” When he sees a machine, he likes to understand how it functions, just because he’s curious. One day he might be examining a meat cutting machine and the next day it might be a CNC milling machine.

Since he started with the company, the biggest change Gombiski has seen is the way that the company has embraced digital technology. Years ago, an auction might have 300 pictures on the website, but now there would be 5,000 for a similar auction, giving the potential buyers a better look at the products. The company also has a good following on Facebook as well as eblast emails that tell buyers about new auctions, bringing in more people who are interested in buying.

About 2 1/2 years ago, the company started doing online only auctions for some of its clients, and now those are about 50 percent of the auction. Selling online benefits both the buyer and the seller, since a team doesn’t need to be at the auction site, and sellers don’t have to go to distant actions and wait for one item of interest to be sold.

One thing that hasn’t changed is the company’s dedication to the community. James Murphy was “a bit of a philanthropist,” and he was particularly invested in helping the homeless. The company still sponsors golf tournaments dedicated to that cause.

From its modest beginnings, the company has seen some impressive growth, but Gombiski didn’t want to speculate too much about the future. However, he was confident that, “Murphy isn’t going anywhere. The roadmap has been laid out.”

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UPCOMING TOPICS

- FEB Compactors
- MAR Shredders
- APR Attachments
- MAY Fleet Management Software

PLASTICS

PET recycling increases in tough 2017 market

The National Association for PET Container Resources (NAPCOR) and The Association of Plastic Recyclers (APR) announced the release of the Report on Postconsumer PET Container Recycling Activity in 2017. The report cites a 2017 U.S. recycling rate of 29.2 percent for polyethylene terephthalate (PET) plastic bottles, reflecting a slight increase over the 2016 rate of 28.4 percent. The rate increase reflected decreases in both total collection volumes and volume of PET bottles available for recycling in the U.S.

“Demand for RPET continues to be healthy, and we have capacity and infrastructure to meet those needs,” said Tom Busard, NAPCOR chairman, chief procurement officer for Plastipak Packaging, Inc., and president of Clean Tech, Plastipak’s recycling affiliate. “However, we have more work to do to improve the quality and volume of PET that goes to our reclaimers.”

The recycling rate is derived by using the total volume of recycled PET material purchased by both U.S. proces-

sors (reclaimers) and export markets in 2017 – 1,726 million pounds – taken as a percentage of the total volume of PET resin used in U.S. bottles and potentially available for recycling, 5,913 million pounds. Of that 1,726 million pounds collected, 1,442 million pounds was purchased and processed by domestic PET reclaimers, with the balance of collected material, 283 million pounds, sold to export markets, including Canada.

Export volumes continued to see a decline, with 2017 being the lowest export fraction recorded since 2004 at only 16 percent of total collection. The domestic market readily absorbed the bottles not exported; total postconsumer bottles recycled and used by reclaimers was supported by strong domestic demand for the material.

“The key to continued growth in the PET recycling industry is increased demand for RPET by end users, and designing bottles for recyclability. Increased utilization of RPET provides the connection to meeting ‘Circular Economy’ sustainability goals

announced by many consumer brands,” said Steve Alexander, APR president. “Despite challenges with increased contamination and demand markets, the RPET industry continues to demonstrate its strength in terms of consistent domestic material purchases, and investment in enhanced processing capacity. The industry is superbly situated to work with all segments of the demand market to meet their sustainability challenges.”

In terms of RPET used in U.S. and Canadian end market applications, total volumes increased by over 5 percent to 1,574 million pounds in 2017. Fiber, sheet and thermoforms, along with the strapping market all showed growth over 2016, while RPET use in bottles saw a reduction in total pounds.

Both NAPCOR and the APR continue to work to address the industry’s ongoing challenges, with particular focus on improving quality of PET from the waste stream, reducing non-PET contamination in recycling streams, and building awareness at both industry and consumer levels of the importance of recycling PET.

This is the 13th year that NAPCOR and APR have partnered to produce this report and the 23rd year that it’s been issued by NAPCOR in its current format.

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

Garnier donates hardscapes

Garnier, a naturally inspired skin-care and haircare brand, announced that Winston-Salem State University received a Garnier Green Garden made from recycled beauty and personal care products for the Winston-Salem community. University student Miranda Legg was named the winner of Garnier national Rinse, Recycle, Repeat campaign, created in partnership with TerraCycle and DoSomething.org.

Launched in March 2018, the goal of Rinse, Recycle, Repeat was to convey the importance of recycling beauty and personal care waste containers. From the competition, over 20,000 beauty and personal care containers were collected.

Legg competed against entrants from 49 other schools throughout the month of April. As a result of her efforts, a new Garnier Green Garden was donated to Simon’s Green Acre Community Garden, located in Winston-Salem, North Carolina. The revamped garden includes raised beds, picnic tables, park benches and waste receptacles.

In addition to the Simon’s installation, Garnier has donated 11 other Garnier Green Gardens throughout the country. These gardens have engaged hundreds of thousands of individuals in the surrounding communities and many of them grow fruit and vegetables for local schools in impoverished areas where children do not have access to nutritional lunches.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

On your mark, get ready, don't go!

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.

I get a few calls a month from people saying, “I want to be an entrepreneur, and this is my business idea.”

My investor friends tell me that the world is full of great ideas, and the world is awash with money to fund them. There are very few people that can connect the ideas and the money and find success. Actually, it’s by far and away the most important ingredient, being able to make things happen and connect the dots.

Now back to that budding entrepreneur. Just the thought of being an entrepreneur is exciting. And it’s reasonably easy to come up with an idea for a business, or copy someone else’s. But in most cases, the person I’m talking to is woefully unprepared. Usually they are looking for an investment, and excited to share their idea. How do I know they are unprepared? I asked them to define their customer. I usually get a blank stare or a lame attempt to answer. I ask them for their business plan. How many widgets? Price? Expenses? Just a simple P&L for the first two years. How about a marketing

plan? A distribution plan? How much money will they need? Now some of these items may indeed require help to create, and I encourage everyone to find a consultant to help backfill their weaknesses. I always use a consultant before I start a business.

The moral to the story is that if you want to be an entrepreneur, spend your energy getting the skills you need to have even a shot at being successful. If you went to college, great, you learned some things, but likely need much more. Read – a lot! Your speed and volume will depend on how much you want it. A book a month will get you pretty prepared in a few years. Twenty four books, on leadership, marketing, business plans, sales, finance, metrics, and getting loans, to name just a few of the topics. Look at best sellers in these categories, you will be close. I think it’s more about marketing than most things, but that’s just me. Good products die all the time with bad marketing, mediocre products make it with good marketing.

Good luck, I know you can do it if you want to.

If you can’t get through 24 books at least, then your odds of success are lowered dramatically. I’m over 60 years old and still read and learn every day.

Remember, only you can make BUSINESS GREAT!

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

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AUTOMOTIVE

IAA opens Michigan branch



Insurance Auto Auctions, Inc. (IAA), a business unit of KAR Auction Services has opened a new facility in Flint, Michigan. The new branch is IAA's third strategic location serving the northern Midwest market of Michigan. The site boasts a new state-of-the-art facility and its 18 acres allow for future expansion.

"The new facility will help us continue to offer our best-in-class customer

service and auction experience to our clients in east central Michigan," said John Kett, chief executive officer and president of IAA.

The new IAA facility in Flint replaces the IAA Great Lakes facility in Bay City, Michigan. IAA Flint will host auctions on Tuesdays, with preview days held every Monday.

KAR to extend international footprint with acquisition

KAR Auction Services, Inc., a global automotive remarketing and technology services company, has reached a definitive agreement to acquire Belgium-based CarsOnTheWeb (COTW). The potential transaction is valued at approximately 91 million euros in cash and up to an additional 65 million euros over a specified period of time contingent on certain terms, conditions and COTW performance. The companies expect to close the transaction the first quarter of 2019 subject to certain required regulatory approvals.

COTW is an online auction company serving the wholesale vehicle sector in Continental Europe that seamlessly connects OEMs, fleet owners, wholesalers and dealers. When completed, the acquisition will advance KAR's international strategy and extend its strong North American and UK-based portfolio of physical, online and digital auction marketplaces. KAR also intends to leverage COTW to deploy the company's technology, data analytics and

other ancillary service capabilities across Europe.

With sales operations in Belgium, France, Germany, Italy, the Netherlands and Spain, COTW provides sellers in these countries and buyers in over 50 countries with a wide range of vehicle auction, transportation and related support services. The company's online and mobile tools are available in 19 languages and deliver real-time search, bid, payment and logistics scheduling functionality. COTW also provides comprehensive, VAT-compliant payment, document transfer and post-sale processes supporting the 97 percent of customer transactions that involve cross-border sales.

After the transaction closes, KAR intends to retain COTW's current operating locations, employees and key COTW leadership and management team members. This includes Johan Meyssen, chief executive officer of COTW, who will report directly to Benjamin Skuy.

Study confirms autos with AHSS steel have lower GHG emissions than aluminum

The use of advanced high strength steel (AHSS) for large scale automotive fleet lightweighting results in an immediate and sustained decrease in greenhouse gas (GHG) emissions associated with production and use of the affected vehicle fleet, whereas the use of aluminum for lightweighting the same fleet results in an increase in overall GHG emissions lasting for several decades according to a study released by the Steel Market Development Institute (SMDI). SMDI is a business unit of the American Iron and Steel Institute.

The study compares a wide range of lightweighting scenarios and, in each case, the use of aluminum would increase overall GHG emissions for many years – offsetting any fleetwide life cycle benefits during the same time period.

Dr. Jody Hall, vice president, automotive market, at SMDI, said, "The study demonstrates that lightweighting vehicle body and closure panels with AHSS immediately decreases overall GHG emissions in the production of the steel for the car and the emissions generated during driving. This study differs from some previous studies in that it takes into account the timing of the

GHG emissions, which is a critical consideration in the full life cycle performance of vehicles."

Based on study findings, Mark Thimons, vice president, sustainability, for SMDI, noted, "When compared to lightweighting with aluminum, lightweighting an equivalent fleet with AHSS instead results in cumulative net savings of more than 300 million metric tons of GHG emissions by 2038 – the equivalent of the emissions resulting from combustion of 45 billion gallons of gasoline. By 2053, an additional 100 million metric tons would be saved – totaling more than 400 million metric tons of GHG emissions savings."

The study incorporated the full life cycle consequences of material selection decisions, including changes in steel and aluminum production, volume of scrap produced and recycled, and use-phase emissions. It augments a 2017 peer-reviewed study from the Steel Recycling Institute (SRI), "Life Cycle Greenhouse Gas and Energy Study of Automotive Lightweighting."

More information on the studies can be found at www.steelsustainability.org, in addition to information on steel's sustainability and other environmental benefits of using steel.

Testimonial



"I've done my homework, so I know from those I've spoken with – American Recycler is a well-read publication in the markets we serve."

—Jeannie Bolt, Marketing Director
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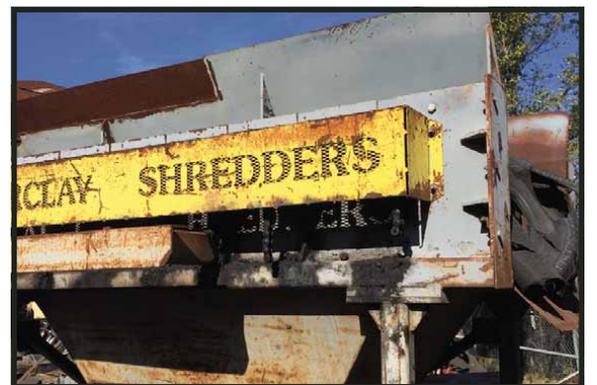


CM LIBERATOR 4R TIRE WIRE SEPARATOR
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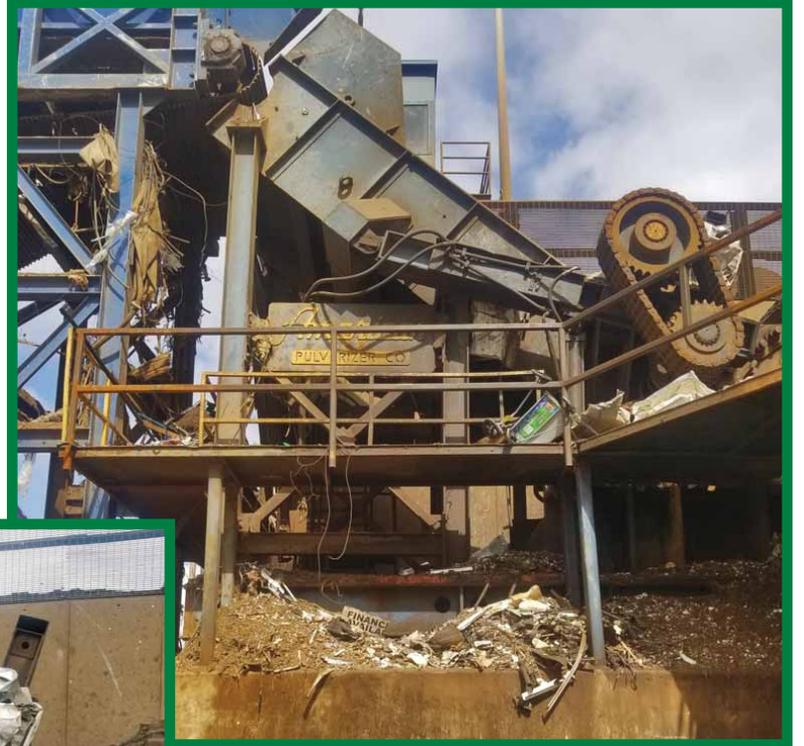
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METALS

Steel imports decreased

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	OCT 2018	SEP 2018	2017 Full Year	2018 Annualized	% Change 2018 Annual vs. 2017
SOUTH KOREA	183	189	3,753	2,974	-20.7%
JAPAN	105	90	1,504	1,403	-6.7%
GERMANY	113	117	1,405	1,320	-6.1%
TURKEY	68	133	2,191	1,249	-43.0%
TAIWAN	68	105	1,245	1,096	-12.0%
VIETNAM	115	75	749	1,067	42.5%
CHINA	57	40	813	698	-14.2%
NETHERLANDS	78	58	658	588	-10.7%
All Others	1,203	1,059	17,243	16,104	-6.6%
TOTAL	1,991	1,866	29,561	26,499	-10.4%

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 3,264,000 net tons (NT) of steel in October 2018, including 1,991,000 NT of finished steel (up 44.2 percent and 6.7 percent, respectively, vs. September final data). Year-to-date (YTD) through 10 months of 2018, total and finished steel imports are 29,436,000 and 22,082,000 NT, down 10.6 percent and 13.4 percent, respectively, vs. the same period in 2017.

Key finished steel products with a significant import increase in October compared to September were hot rolled bars (up 55 percent), line pipe (up 37 percent), mechanical tubing (up 23 percent), tin plate (up 13 percent) and wire drawn (up 13 percent). Major products with significant year-to-date (YTD)

increases vs. the same period in 2017 include hot rolled sheets (up 23 percent) and plates in coils (up 19 percent).

In October, the largest volumes of finished steel imports from offshore were from South Korea (183,000 NT, down 3 percent from September final), Vietnam (115,000 NT, up 53 percent), Germany (113,000 NT, down 3 percent), and Japan (105,000 NT, up 17 percent). For the first 10 months of 2018, the largest offshore suppliers were South Korea (2,479,000 NT, down 26 percent vs. the same period in 2017), Japan (1,169,000 NT, down 11 percent), Germany (1,100,000 NT, down 5 percent), Turkey (1,041,000 NT, down 50 percent) and Taiwan (913,000 NT, down 21 percent).

November steel import permit applications down

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of November totaled 2,544,000 net tons (NT). This was a 15.4 percent decrease from the 3,007,000 permit tons recorded in October and a 22.1 percent decrease from the October preliminary imports total of 3,264,000 NT.

Import permit tonnage for finished steel in November was 1,920,000, down 3.6 percent from the preliminary imports total of 1,991,000 in October. For the first 11 months of 2018 (including November SIMA permits and October preliminary data), total and finished steel imports were 31,979,000 NT and 24,002,000 NT, down 10.4 percent and 13.3 percent, respectively, from the same period in 2017. The estimated finished steel import market share in November was 20 percent and is 23 percent year-to-date (YTD).

Finished steel imports with large increases in November permits vs. the

October preliminary included electrolytic galvanized sheets and strip (up 224 percent), wire rods (up 86 percent), heavy structural shapes (up 62 percent), tin free steel (up 34 percent), mechanical tubing (up 14 percent), and sheets and strip all other metallic coatings (up 14 percent). Products with significant YTD increases vs. the same period in 2017 include hot rolled sheets (up 21 percent) and plates in coils (up 15 percent).

In November, the largest finished steel import permit applications for offshore countries were for South Korea (182,000 NT, down 1 percent from October preliminary), Japan (142,000 NT, up 35 percent), Germany (123,000 NT, up 8 percent), Vietnam (115,000 NT, no change) and Taiwan (92,000 NT, up 36 percent). Through the first 11 months of 2018, the largest offshore suppliers were South Korea (2,660,000 NT, down 25 percent from the same period last year), Japan (1,311,000 NT, down 8 percent) and Germany (1,222,000 NT, down 6 percent).

I was walking on a trail with my newborn daughter, chatting to her about the scenery. When a man and his dog approached, I leaned into the baby carriage and said, "See the doggy?"

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METALS

Steel Dynamics to build sheet mill in southwest U.S.

Steel Dynamics, Inc. announced that its board of directors has authorized the company to construct a new state-of-the-art, electric-arc-furnace (EAF) flat roll steel mill in the U.S. The facility is will likely have an annual production capacity of approximately 3.0 million tons with the capability to produce the latest generation of advanced high strength steel products. The project will include value added finishing lines, including a galvanizing line with an annual capacity of 450,000 tons, and a paint line with an annual coating capacity of 250,000 tons. The product offering is anticipated to include various flat roll steel products, including hot roll, cold roll, galvanized, Galvalume® and painted steel, primarily serving the energy, automotive, construction, and appliance sectors. The current estimated investment is \$1.7 billion to \$1.8 billion, with anticipated direct job creation of approximately 600 well paying positions, and numerous opportunities for indirect job growth from other support service providers.

The company currently expects to locate the facility in the southwestern

U.S., to cost effectively serve not only the southern U.S., but also the underserved Mexican flat roll steel market. Determination of the final site location is subject to state and local government infrastructure and incentive support. Upon final site selection and the receipt of required environmental and operating permits, the company will likely begin construction in 2020, followed by the commencement of operations in the second half of 2021.

“We believe our unique operating culture, coupled with our considerable experience in successfully constructing and operating cost-effective and highly profitable steel mills, positions us well to execute this greenfield opportunity, and to deliver strong, long term value creation,” said Mark. D. Millett, president and chief executive officer. “We plan to utilize new technologies that will further reduce the gap between existing EAF and integrated steel mill production capabilities. As a site location is finalized and equipment negotiations are completed, we look forward to updating you on this important strategic initiative.”





Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$269.00	268.00	279.00	302.00	390.00
#1 Bundles	per gross ton	274.00	260.00	281.00	295.00	404.00
Plate and Structural	per gross ton	284.00	284.00	287.00	342.00	369.00
#1 & 2 Mixed Steel	per gross ton	225.00	272.00	250.00	308.00	334.00
Shredder Bundles (tin)	per gross ton	172.00	185.00	198.00	201.00	215.00
Crushed Auto Bodies	per gross ton	172.00	185.00	198.00	201.00	215.00
Steel Turnings	per gross ton	92.00	98.00	96.00	169.00	216.00
#1 Copper	per pound	2.75	2.62	2.79	2.48	2.44
#2 Copper	per pound	2.61	2.55	2.69	2.31	2.24
Aluminum Cans	per pound	0.71	0.74	0.69	0.72	0.60
Auto Radiators	per pound	1.75	1.62	1.79	1.61	1.61
Aluminum Core Radiators	per pound	0.71	0.74	0.62	0.51	0.42
Heater Cores	per pound	1.24	1.12	1.25	1.29	1.32
Stainless Steel	per pound	0.61	0.61	0.61	0.56	0.51

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

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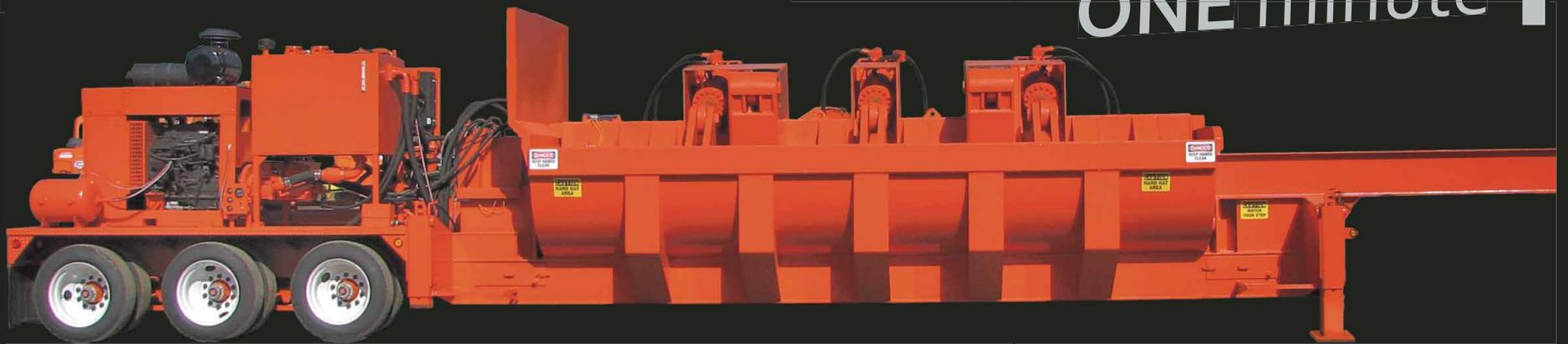
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EQUIPMENT SPOTLIGHT

Chippers/Grinders

by MARY M. COX

maryc@americanrecycler.com

Chippers and grinders are routinely used to reduce organic waste, and in doing so, machine users may also realize a profit from the end of process material.

There are 17 standard models within the 3 series (TC, HC and WC) of the tub grinders offered by HogZilla. The largest grinder is the TCII-1564P diesel powered model – which is also the most popular. TC Series grinders can also be configured with electric power ranging from 900 to 1350 hp. “Our HC and WC Series grinders can be mounted on tracks for greater mobility at the job site, or can be ordered with a loader installed,” noted Tim Wenger, vice president, HogZilla sales. HogZilla horizontal grinders are available as either 5th wheel portable, on tracks or can be built as an electric stationary unit. Overall, CW Mill Equipment manufactures 20 standard HogZilla models with numerous options available.

All diesel powered models utilize the latest Tier 4 engines to comply with current EPA engine emission regulations, and feature a Twin Disc Torque Converter to drive the hammermill and protect the engine from damaging shock loads. Wenger stated, “They’ve proven so reliable that CW Mill stands behind them with a five year warranty.” Most electric models have a direct drive, which eliminates belt maintenance.

Wenger also explained how their customers use wood from picking stations and grind it into boiler fuel – and that C&D material can be ground for daily landfill cover after it has been inspected for metal and large concrete.



CW Mill Equipment Co., Inc.

TDF (tire derived fuel) is also a valuable commodity. “Tire grinding has gained in popularity because hammermills are more tolerant to ‘dirty’ tires and tub feeders allow for processing of larger tires, further enabling tires to be broken down so the ground material can be used as TDF. When wood and tires are discarded

and landfilled, trillions of BTUs are going to waste,” Wenger said.

Precision Husky Corporation is a 50 year old international company that manufactures waste wood processing equipment for the recycling, sawmill and forestry industries. Precision offers six different models of tub style grinders, and three horizontal grinders. The tub style grinders are offered as trailer mounted machines or track mounted units. Horizontal grinders are offered as trailer mounted, track mounted, or stationary electric units.

“Our tub grinder models range from the 250 hp ProGrind 900 to the 1,200 hp 5200. The 5200 and our ProGrind 4000 are available with or without a Husky Knuckle Boom Loader attached. The



Precision Husky Corporation

ProGrind H3045 with 500 hp, the H3060 with 600 to 700 hp, and the H4060 with up to 1,200 hp round out our horizontal grinder offerings. Precision grinders have always been known for their ease of maintenance and reliable operational controls. Also, we offer a remote-controlled thrown object shield for our tub grinders. This option allows the units to be used in areas where space is tight.”

Steve Briscoe, ProGrind sales manager, commented. Precision tub grinders are widely used by contractors, municipalities and governments around the world. The machines are used for processing yard waste, forestry waste, pallets, construction waste and storm cleanup. The material is then used to manufacture compost, fuel, mulch and more. Precision purchased the Recycling Equipment Division from The Toro Company in 1998 and expanded the Toro product line.

Briscoe noted that regulations for these machines and their operation are consistently challenging. The regulation that affects all manufacturers of these machines is EPA’s Tier 4 final emissions

requirement. This in turn affects pricing and requires most manufacturers to do some redesign for engine placement. “Regardless of the challenges that come and go, we’re always excited about the opportunities that present themselves as well,” he said.

West Salem Machinery’s (WSM) large horizontal construction/demolition and urban wood grinders feature a large feed opening, massive rotor, large diameter feedroll, and multi-strand chain infeed conveyor. The unique limited swing hammers offer maximum machine protection from large uncrushables. The large grinder offers optimum effectiveness in

processing large, bulky material. Large vertical grinders are a great option for shorter material including at resource recovery and recycling facilities. The grinders can be part of a complete recycling system that converts pre-shredded construction, demolition, land clearing and commercial waste into value-added end products. The WSM Model 5472BP vertical grinder features a heavy steel housing, a 54” diameter by 72” wide fully-machined rotor and massive alloy steel swing hammers with replaceable rebuildable tips. The grinder operates at 600 hp and uses heavy-duty modular sizing screens to reduce various materials to a 2 to 4” product size at rates up to 50 TPH. The 5472BP offers WSM’s unique pivot top case that allows for quick and easy maintenance to the inside of the grinder, reducing downtime.

Large uncrushables can do extensive grinder damage. WSM offers options to minimize the damage, including a ballistics infeed chute. The unique design and construction of the chute allows large pieces of tramp metal and other uncrushables that enter the grinder to be captured and removed from the material flow – helping to protect the grinder rotor and reducing maintenance expenses. The ballistics chute also acts as a safety device by helping to eliminate projectiles from the grinder chuteworks.

According to Denise Fine, marketing coordinator, recyclers who specialize in managing recyclables for large demolition and construction projects, strive to expand their business to include more “urban forest” wood in their recoverable waste stream. “This can mean processing



West Salem Machinery Co.

salvage, dunnage, concrete forms, C&D debris, tree trimmings, and other large recoverables for other markets, including papermills for biomass feedstock, an industry in which WSM has long been a leader. The continuing evolution of the recycling industry requires a partner that can work with recyclers to customize grinders for the new challenges that arrive, so together, they can find the best solution,” Fine said.

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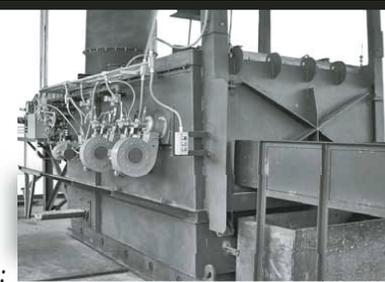


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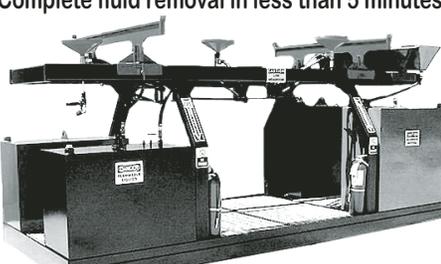
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BUSINESS BRIEFS

American Baler chooses new sales representative

American Baler Company welcomed Sean Gertsch as key account sales.

Gertsch will be responsible for developing national and OEM accounts. Previously Gertsch served as a sales representative for Hoosier Machinery Solutions where he specialized in sales of capital equipment for recycling and material recovery facilities.

American Baler Company is an industry leader in the manufacturing of recycling balers used in distribution centers, manufacturing, and recycling centers world-wide.

AEM Hall of Fame inducts Steiger Manufacturing

The Association of Equipment Manufacturers (AEM) named their newest inductees to the AEM Hall of Fame: the Steiger Family (John, Maurice and Douglass), co-founders of Steiger Manufacturing Company.

The AEM Hall of Fame recognizes and celebrates outstanding individuals in the off-road equipment industry and their legacy of innovation, service and leadership.

Nominations for the AEM Hall of Fame are open year round. Companies or persons may submit nominations for individuals, living or deceased, who have made noteworthy and specific contributions to the industry's legacy of progress.

Adesa names Fontaine as new general manager

Adesa, a business unit of global vehicle remarketing and technology solutions provider KAR Auction Services, Inc., has named David Fontaine general manager of its Adesa Buffalo auction.

Fontaine brings more than two decades of experience in the corporate, educational, non-profit and government sectors. He spent nearly 14 years at Maritz, an international provider of market research, sales incentives and training and development. During his time there, Fontaine was regional business partner for more than 400 dealerships for one of the nation's leading OEMs. He also served as field force general manager for another leading OEM project - directing North American operations and managing sales and marketing activities for more than 700 subscriber dealerships.

Fontaine earned a Ph.D. in training and performance improvement as well as professional certifications in human resources. He has served as adjunct or assistant professor for multiple colleges and universities since 2005. As a member of the board of examiners for the Malcolm Baldrige National Quality Award, Fontaine has assisted in the development of the applicant assessment report that serves as criteria for recognition by the U.S. Department of Commerce for performance excellence.

Safe Fleet acquires Roll-Rite group of companies

Safe Fleet, a global provider of safety and productivity solutions for fleet vehicles, has acquired the Roll-Rite group of companies.

Roll-Rite is a provider of innovative OEM and aftermarket safety products that protect cargo, reduce risks to drivers and roadways and improve fleet efficiencies.

Under the Roll-Rite and Pulltarps brands, Roll-Rite manufactures a complete line of application-specific automated and semi-automated tarping systems, motors, controls and tarps for open body dump trucks, open top trailers and detachable containers. It is estimated that there are more than 150,000 trucks and trailers on the road equipped with a Roll-Rite or Pulltarps branded system.

Efren Shayd Carmona Loya joins Vortex

Vortex has appointed Efrén Shayd Carmona Loya as regional sales manager for Mexico.

Shayd has joined the team at Vortex Latinoamérica, a division of Salina Vortex Corporation located in Querétaro. In this role, Shayd is responsible for working directly with original equipment manufacturers, end users and industry specialists to further expand Vortex sales throughout Latin America.

Shayd brings with him more than 12 years of industrial sales experience. Previously, he worked as a market administrator for Cemex.

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The powerful Taskmaster XL pallet shredder effectively shreds entire pallets and nails all to reduce their bulk volume, which substantially reduces the expense of disposing of pallets. It is supplied complete with stand, hopper and automatic reversing controls. Its streamlined design features a direct coupled gear drive which is smooth running and simple to operate.

This unit is designed to be easy to use and easy to maintain – there are no drive belts to re-tension and it's hopper automatically directs the pallet into the cutting chamber. Optional conveyor equipment is available for customized automation.

Franklin Miller, Inc.
60 Okner Parkway
Livingston, NJ 07039
973-535-9200
www.franklinmiller.com



LIFTOMATIC'S PORTABLE DRUM HANDLER IS PERFECT FOR C1D1

The C1D1-DCM power drum transporter is a completely powered and self-contained handling device for lifting, lowering and moving all types of steel, plastic and fiber drums.

The unit incorporates a completely electrically enclosed and spark free power drive, as well as power lift and lower for moving drums quickly and efficiently by any operator.

With weight capacities up to 1,000 pounds available and many additional features, Liftomatic's new C1D1-DCM drum transporter fits nicely into all work areas designated with EE or EX ratings!

Liftomatic
Material Handling
700 Dartmouth Lane
Buffalo Grove, IL 60089
847-325-2930
www.liftomatic.com



NEW APPLICATION FOR RIGAKU ANALYTICAL HANDHELD DEVICES

Rigaku Analytical Devices announces a new application study that describes the use of the handheld KT-100S laser induced breakdown spectroscopy (LIBS) analyzer for positive material identification and verification of metal alloys used in various industries.

The KT-100S LIBS analyzer offers a new handheld solution that answers many of the issues and concerns presented by current technology. The KT-100S analyzer provides industry-leading features and precise analysis wherever needed. The included alloy grade library includes most common grades used in refineries and other production environments.

Rigaku Americas Corp.
9009 New Trails Drive
The Woodlands, TX 77381
281-362-2300
www.rigaku.com

BUSINESS BRIEFS

Brokk hires Graser as new regional sales manager

■ Brokk, a manufacturer of remote-controlled demolition machines, hired Ted Graser as its southeast regional sales manager. Graser manages sales for both Brokk robotic demolition machines and the company's Aquajet Systems AB hydrodemolition robots. He provides support to customers throughout Alabama, Georgia, Florida, Tennessee and the Carolinas.

Graser joins Brokk with 25 years of construction and industrial equipment sales experience, including managing international territories for Link-Belt Excavators, a U.S. based heavy construction equipment manufacturer; Time Manufacturing Company, a Texas based manufacturer of aerial lifts; and Sennebogen, a German material handling equipment manufacturer. Prior to these roles, he served two years in the early 1990s as a Peace Corps volunteer in Uruguay, South America.

John Thomas named president of R&B Debris

■ The Hainesport Transportation Group has named John Thomas president of R&B Debris, a subsidiary company. R&B Debris, based in Hainesport, New Jersey, provides transportation services for hazardous and non-hazardous materials, providing disposal solutions through a network of private and public landfills in the Greater Philadelphia region.

In this role, Thomas will be responsible for strengthening the relationships with the company's current clients and disposal partners and spearheading efforts to grow R & B Debris through new partnerships and planning a long term strategy in an everchanging industry.

Thomas was practically raised in the transportation industry. In addition to his parents' operating a tractor trailer company, Thomas has worked for Statewide Hi-Way Safety as fleet maintenance manager, for Universal Express as fleet manager, and as operations manager for M.L. Ruberton Construction and then its sister company, Aquatex.

In 2016, Thomas joined R&B Debris as a transportation and disposal specialist to help the organization grow and develop into larger markets.

The Hainesport Transportation Group provides fully integrated transportation and disposal services and focuses on the needs of companies involved with solid waste streams.

Fuchs names Hoffman Equipment as dealer

■ Fuchs has appointed Hoffman Equipment as the authorized Fuchs distributor for 11 counties in Southern New York, the entire state of New Jersey and Eastern Pennsylvania for the full line of Fuchs material handlers.

In addition to sales and rental opportunities, Hoffman Equipment will provide parts, service and warranty support for Fuchs material handlers.

Landmark Equipment under new ownership

■ Landmark Equipment, a long time member of the Pettibone dealer network based in Portland, Oregon, has a change in ownership. Serving material handling customers in Oregon, Idaho, Montana, Wyoming and northern California, Landmark Equipment has sold and serviced the Pettibone Cary-Lift product line for more than 30 years, and now also carries Pettibone Extendo and Traverse telehandlers.

The dealership was originally established in 1984 under the name Parts Company Northwest by Earl Rund and his partners, becoming Landmark Equipment in 1993. The sole owner since 2006, Rund is retiring and has sold Landmark Equipment to long term employees John Gunderson and Rick Nivens.

Landmark Equipment has been very successful with the Cary-Lift lineup, particularly with customers who move and stack items such as coated pipe and treated wooden poles. Exclusively focused on Pettibone for new equipment sales, Landmark added the Extendo and Traverse telehandlers to its offering in 2016. The company also has a long history of refurbishing and supplying used Pettibone parts from decades-old machines.

Gold Medal acquires Apple Valley Waste

■ Gold Medal Group and its wholly-owned subsidiaries, a portfolio company of Kinderhook Industries, LLC and its minority partner BioHiTech Global, Inc. have acquired Apple Valley Waste Services, Inc.

The transaction represents Kinderhook's 36th investment in the environmental services sector. Apple Valley is a solid waste company that offers collection, processing, disposal and recycling services throughout the Mid-Atlantic region. Apple Valley services customers in West Virginia under certificates of necessity issued by the Public Service Commission of West Virginia and provides waste collection services in large metropolitan areas such as Baltimore, Washington, D.C. and Southern Pennsylvania.

Apple Valley and BioHiTech are minority owners of Entsorga West Virginia, a company that is currently constructing the first facility in the U.S. to utilize Entsorga's HEBioT mechanical biological treatment (MBT) technology.

By utilizing the HEBioT MBT system, Entsorga West Virginia will recover biomass, plastics and other carbon based materials from the mixed municipal solid waste stream and convert them into a safe alternative fuel source. Once operational, the plant will be able to accept up to 120,000 tons per year of inbound municipal solid waste and convert approximately 45 percent into solid recovered fuel. Upon opening of the Entsorga facility, Gold Medal will become a vertically integrated solid waste services provider. Less than 20 percent of the material Gold Medal delivers will end up in landfills.

E-Z CRUSHER DEAL

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



PRICED WITH A TIER 3 DIESEL POWER PLANT

\$165,000

**LIST
PRICE**

-10,000

**OFF THE
2018 MODEL**

\$155,000

With only a \$10,000 ORDER DEPOSIT
(which is 5x lower than competitor's deposit!)

**or with approved financing
from DADECapital.com!**



R.M. Johnson Co. • Annandale, Minnesota

800-328-3613 | 320-274-3594 | Fax: 320-274-3859

EZCrusher.com | davev@ezcrusher.com

DADE AUCTIONS

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844-222-2020

www.DADEAuctions.com

BIG SALE

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1985 MAC Car Crusher. Runs well. Start crushing for cheap! \$42,000



CM Portable Tire Shredder. Rebuilt and ready to work! \$220,000



Barclay 4.9 Tire Shredder Good condition. Recently rebuilt. \$180,000



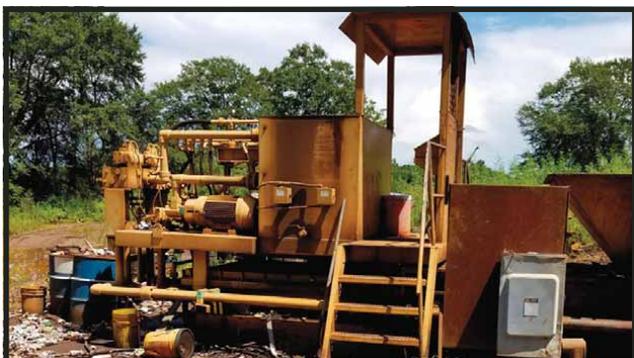
1997 Magnatech 66x60 Shredder. Includes conveyance & ECS. \$220,000



2016 Volvo EC160. With SAS Engine Puller. Coming early 2019! \$195,000



2010 BG5 3E Tire Shredder. Includes infeed and take-away conveyors. \$95,000



2006 MAC 5200 Baler. 16" x 16" x variable bale size. \$155,000



2015 Wolverine Tire Debeader. NEW, NEVER USED! Half price of new! \$82,500



Rubber Mulch Paint Line. Dual drum batch painting line. \$55,000



1997 E-Z Metal Baler. New pump, bearing, gears and hoses. \$55,000



2015 OverBuilt Auto Logger. Extremely well-maintained. \$285,000



Gloucester Granulators. Five knife rotors. Inc screens of various sizes. \$25,000 each



Granutech Grizzly Knives. Three sets. Need sharpened, only used once. \$4,000 per set



2006 Sennebogen 825. 10,700 hours. Includes rotating grapple. \$115,000



1995 E-Z Model A+ Car Crusher. 7,200 hours. Has remote but needs new hand-held. \$55,000



AMERICAN RECYCLER BUYER'S GUIDE

SECTION B

www.AMERICANRECYCLER.com

JANUARY 2019

Categories

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For an alphabetical listing that includes addresses, phone numbers, and websites please see page B4.

Automotive Recycling

BALERS & CRUSHERS

- Al-jon by C&C Mfg
- Dynamic Lifecycle Innovations
- Equipment International
- E-Z Crusher/R.M. Johnson Company
- Harris
- Holmatro
- Interstate Batteries Recycling, LLC
- Iron Ax
- Lamb Fuels Inc.
- Lefort America
- Metso
- Moley Magnetics Inc.
- National Attachments, Inc.
- OBC Industrial
- RCBC Global, Inc.
- Recycling Services Intl, LLC.
- SICON America
- Sierra International Machinery, LLC
- SP Industries Inc.
- Vortex
- Wendt Corp.

USED FLUIDS PROCESSING

- AutoDrain
- Crow Environmental
- Iron Ax
- Holmatro
- Lamb Fuels Inc.
- Moley Magnetics Inc.

- OBC Industrial
- Prab Inc.
- Sebright Products, Inc.
- Vortex

OTHER AUTOMOTIVE RECYCLING

- AutoDrain
- Bandit Industries, Inc.
- Blackrock Plastics, LLC
- Builrite Manufacturing
- Crow Environmental
- Dynamic Lifecycle Innovations
- E-Z Crusher/R.M. Johnson Company
- F V Evans Engineering Limited
- Harris
- Hollander
- Holmatro
- Interstate Batteries Recycling, LLC
- Iron Ax
- Lamb Fuels Inc.
- Lefort America
- Metso
- Moley Magnetics Inc.
- OBC Industrial
- Prab Inc.
- RCBC Global, Inc.
- Sebright Products, Inc.
- Shred-Tech
- Steinert US
- Supershear Inc.
- Tufner Weighing Systems
- Umicore
- Vortex
- Wendt Corp.

Aluminum & Steel Processing

BALERS & CRUSHERS

- Al-jon by C&C Mfg
- CPM Di Piu Systems
- E-Z Crusher/R.M. Johnson Company
- Ely Enterprises Inc.
- Engineered Recycling Systems, LLC
- Equipment International
- Excel Manufacturing, Inc.
- Harmony Enterprises, Inc.
- Harris
- Holmatro
- International Baler Corporation
- Iron Ax
- Lefort America
- Mallin Companies, Inc.
- Maren Balers & Shredders
- Metso
- OBC Industrial
- RCBC Global, Inc.
- Sebright Products, Inc.
- Sierra International Machinery, LLC
- SP Industries Inc.
- Vortex
- Wendt Corp.

DENSIFIERS & FLATTENERS

- CPM Di Piu Systems

- E-Z Crusher/R.M. Johnson Company
- Equipment International
- Harris
- Holmatro
- International Baler Corporation
- Lefort America
- Maren Balers & Shredders
- OBC Industrial
- SICON America
- Sierra International Machinery, LLC

SHREDDERS

- Al-jon by C&C Mfg
- Bandit Industries, Inc.
- BCA Industries
- Engineered Recycling Systems, LLC
- Equipment International
- Evashred Shredders, New Zealand
- F V Evans Engineering Limited
- Flipscreen
- Harris
- Holmatro
- Lamb Fuels Inc.
- Mallin Companies, Inc.
- Metso
- Moley Magnetics Inc.
- OBC Industrial
- Prab Inc.
- RCBC Global, Inc.
- SICON America
- swissRTec America, Inc.
- Wendt Corp

OTHER ALUMINUM & STEEL PROCESSING

- Bunting Magnetics Co.
- CPM Di Piu Systems
- Crow Environmental
- E-Z Crusher/R.M. Johnson Company
- Equipment International
- F V Evans Engineering Limited
- Holmatro
- Lefort America
- Mallin Companies, Inc.
- OBC Industrial
- Prab Inc.
- RCBC Global, Inc.
- Recycling Services Intl, LLC.
- Shred-Tech
- Sierra International Machinery, LLC.
- SwissRTec America, Inc.

Conveyors

BELTS

- Andela Products
- Bunting Magnetics Co.
- Ely Enterprises Inc.
- Engineered Recycling Systems, LLC
- F V Evans Engineering Limited
- Harmony Enterprises, Inc.
- Harris
- Mallin Companies, Inc.
- Maren Balers & Shredders
- Moley Magnetics Inc.
- MPI (Magnetic Products Inc.)

- OBC Industrial
- Prab Inc.
- RCBC Global, Inc.
- Shred-Tech
- Sierra International Machinery, LLC
- Vecoplan, LLC
- Warren & Baerg Manufacturing, Inc.
- Wendt Corp.

BULK HANDLING EQUIPMENT

- Ameri-Shred Corp.
- BCA Industries
- Best Process Solutions
- Bunting Magnetics Co.
- Ely Enterprises Inc.
- Excel Manufacturing, Inc.
- F V Evans Engineering Limited
- International Baler Corporation
- Maren Balers & Shredders
- Moley Magnetics Inc.
- MPI (Magnetic Products Inc.)
- OBC Industrial
- Prab Inc.
- RCBC Global, Inc.

PNEUMATIC

- Engineered Recycling Systems, LLC
- Mallin Companies, Inc.
- Moley Magnetics Inc.
- OBC Industrial
- Prab Inc.
- Recycling Equipment Inc.
- Shred-Tech

VIBRATING

- Action Equipment Company Inc.
- Ameri-Shred Corp.
- BCA Industries
- Best Process Solutions
- Bunting Magnetics Co.
- Mallin Companies, Inc.
- Moley Magnetics Inc.
- OBC Industrial
- Prab Inc.
- Precision Husky Corporation
- RCBC Global, Inc.
- Shred-Tech
- Vecoplan, LLC
- Wendt Corp

OTHER CONVEYORS

- Action Equipment Company Inc.
- Andela Products
- BCA Industries
- Bunting Magnetics Co.
- F V Evans Engineering Limited
- Hallco Industries Inc.
- Moley Magnetics Inc.
- MPI (Magnetic Products Inc.)
- OBC Industrial
- Prab Inc.
- Shred-Tech
- Sierra International Machinery, LLC
- Tufner Weighing Systems
- Warren & Baerg Manufacturing, Inc.
- Wendt Corp.

If you **RUN** a high volume operation

and things like bale weight, up-time, durability, safety, serviceability and cleanliness are important...

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sales@marenengineering.com



E-Scrap Materials

AUTOMATED SORTATION

Ameri-Shred Corp.
Dynamic Lifecycle Innovations
Eldan Inc.
Engineered Recycling Systems, LLC
Holmatro
Moley Magnetics Inc.
OBC Industrial
Sesotec Inc.
SICON America
Steinert US
Wendt Corp.

CRT EQUIPMENT (GLASS CUTTING & SEPARATION)

Andela Products
Dynamic Lifecycle Innovations
Holmatro
Moley Magnetics Inc.
OBC Industrial
SICON America
swissRTec America, Inc.

SHREDDERS

BCA Industries
Holmatro
OBC Industrial
Recycling Equipment Inc.
Vecoplan, LLC

OTHER E-SCRAP PROCESSING EQUIPMENT

Action Equipment Company Inc.
Ameri-Shred Corp.
BCA Industries
Bunting Magnetics Co.
Dynamic Lifecycle Innovations
Eldan Inc.
Engineered Recycling Systems, LLC
F V Evans Engineering Limited
Holmatro
International Baler Corporation
Metso
Moley Magnetics Inc.
OBC Industrial
SICON America
ShredSupply, Inc.
Shred-Tech
swissRTec America, Inc.
Tufner Weighing Systems
Umicore

Glass Processing

CRUSHERS

Andela Products
Blackrock Plastics, LLC
Dynamic Lifecycle Innovations
Flipscreen
OBC Industrial
Sebright Products, Inc.
SP Industries Inc.

PROCESSING PLANTS

Andela Products
Dynamic Lifecycle Innovations
OBC Industrial

PULVERIZERS & GRINDERS

Andela Products
Dynamic Lifecycle Innovations
OBC Industrial

OTHER GLASS PROCESSING

Andela Products
Blackrock Plastics, LLC
Dynamic Lifecycle Innovations
Shred-Tech
OBC Industrial
Steinert US

Loaders & Forks

AUTO SALVAGE FORKS

Liftomatic Material Handling, Inc.
Mack Manufacturing Inc.
National Attachments, Inc.

BUCKET FORKS

Liftomatic Material Handling, Inc.

Mack Manufacturing Inc.
National Attachments, Inc.
Solesbee's Equipment & Attachments

MINI LOADERS

ASV Holdings, Inc.
Liftomatic Material Handling, Inc.
MPI (Magnetic Products Inc.)
National Attachments, Inc.

WHEEL LOADERS

Hitachi Construction Machinery
Loaders America, Inc.
Liftomatic Material Handling, Inc.
Midwest Equipment
National Attachments, Inc.

SKID STEER LOADERS & FORKS

ASV Holdings, Inc.
Liftomatic Material Handling, Inc.
Mallin Companies, Inc.
National Attachments, Inc.
Solesbee's Equipment & Attachments

OTHER LOADERS & FORKS

Action Equipment Co. Inc.
ASV Holdings, Inc.
Attachments International
CPM Di Piu Systems
Flipscreen
Liftomatic Material Handling, Inc.
Mack Manufacturing Inc.
Mallin Companies, Inc.
National Attachments, Inc.
Precision Husky Corporation
SDLG

Material Handlers & Processing

AIR CLASSIFIERS

Eldan Inc.
Mallin Companies, Inc.
SICON America
Vecoplan, LLC
Wendt Corp.

AIR KNIVES

Action Equipment Company Inc.
Bunting Magnetics Co.
SICON America
Wendt Corp.

GRAPPLES

Action Equipment Company Inc.
Builrite Manufacturing
Buffalo Turbine LLC
Equipment International
Indeco North America
Iron Ax
Kenco Corporation
Kinshofer
Mack Manufacturing Inc.
Mallin Companies, Inc.
Moley Magnetics Inc.
Morbark Inc.
Precision Husky Corporation
Sierra International Machinery, LLC
Solesbee's Equipment & Attachments

MAGNETS & MAGNETIC SEPARATORS

Action Equipment Company Inc.
BCA Industries
Bunting Magnetics Co.
Engineered Recycling Systems, LLC
Equipment International
Iron Ax
Mallin Companies, Inc.
Moley Magnetics Inc.
MPI (Magnetic Products Inc.)
OBC Industrial
Prab Inc.
Puritan Magnetics, Inc.
Sennebogen LLC
SICON America
Steinert US
Vecoplan, LLC
Wendt Corp.
Winkle Industries, Inc.

OPTICAL SORTERS

Mallin Companies, Inc.
OBC Industrial

Sesotec Inc.
SICON America
Steinert US
Wendt Corp.

SCREENS

Action Equipment Company Inc.
Andela Products
BCA Industries
Engineered Recycling Systems, LLC
Flipscreen
Komptech Americas
KPI-JCI and Astec Mobile Screens
Moley Magnetics Inc.
Precision Husky Corporation
OBC Industrial
SICON America
Vecoplan, LLC
Vermeer Corporation
Wendt Corp.

WEIGHING & HANDLING EQUIPMENT

Best Process Solutions
Builrite Manufacturing
Equipment International
Fairbanks Scales Inc.
Fuchs USA
Maren Balers & Shredders
MPI (Magnetic Products Inc.)
OBC Industrial
Sennebogen LLC
Tufner Weighing Systems

OTHER MATERIAL HANDLERS

Brokk Inc.
Engineered Recycling Systems, LLC
Equipment International
Flipscreen
Fuchs USA
Interstate Batteries Recycling, LLC
Iron Ax
Kenco Corporation
Kinshofer
KPI-JCI and Astec Mobile Screens
MPI (Magnetic Products Inc.)
OBC Industrial
SDLG
Sennebogen LLC
Shred-Tech
Sierra International Machinery, LLC
Solesbee's Equipment & Attachments
Tufner Weighing Systems

Metal Processing

BALERS (VERTICAL & HORIZONTAL)

Al-jon by C&C Mfg
Ely Enterprises Inc.
Engineered Recycling Systems, LLC
Excel Manufacturing, Inc.
Harmony Enterprises, Inc.
Harris
Holmatro
International Baler Corporation
Iron Ax
Maren Balers & Shredders
Metso
OBC Industrial
RCBC Global, Inc.
Sebright Products, Inc.
Sierra International Machinery, LLC
SP Industries Inc.
Wendt Corp.

CRUSHERS

Al-jon by C&C Mfg
Holmatro
Kinshofer
KPI-JCI and Astec Mobile Screens
OBC Industrial
Prab Inc.
SP Industries Inc.

METAL SORTING SYSTEMS

Action Equipment Company Inc.
BCA Industries
Best Process Solutions
Bunting Magnetics Co.
Engineered Recycling Systems, LLC
Flipscreen
Holmatro
Moley Magnetics Inc.

MPI (Magnetic Products Inc.)
OBC Industrial
RCBC Global, Inc.
Rigaku Analytical Devices
SICON America
Sierra International Machinery, LLC
Steinert US
Wendt Corp.

SHEARS (ALLIGATOR & GUILLOTINE)

Al-jon by C&C Mfg
Atlas Copco
Holmatro
Indeco North America
Iron Ax
Kinshofer
Metso
Moley Magnetics Inc.
National Attachments, Inc.
OBC Industrial
RCBC Global, Inc.
Sierra International Machinery, LLC
Wendt Corp.

SHREDDERS

Al-jon by C&C Mfg
BCA Industries
Holmatro
OBC Industrial
Prab Inc.
Wendt Corp.

SWEAT FURNACES

Holmatro
Recycling Services Intl, LLC.

WEAR PARTS

Holmatro
OBC Industrial
SICON America
Wendt Corp.

OTHER METAL PROCESSING

Brokk Inc.
CPM Di Piu Systems
Crow Environmental
E-Z Crusher/R.M. Johnson Company
F V Evans Engineering Limited
Flipscreen
Holmatro
Kinshofer
Metso
RCBC Global, Inc.
Recycling Services Intl, LLC.
Sebright Products, Inc.
Shred-Tech
Sooner Scale Inc.
Tufner Weighing Systems
Umicore

Miscellaneous

COMPUTER SOFTWARE

Harmony Enterprises, Inc.
Hollander

DECALS & PROMOTIONAL PRODUCTS

Pro-Tainer, Inc.

DUST CONTROL

Engineered Recycling Systems, LLC
Mallin Companies, Inc.
National Attachments, Inc.
Recycling Services Intl, LLC.
Sicon America LP

SAFETY PRODUCTS

Brokk Inc.
Crow Environmental
Holmatro
Industrial Netting
Mallin Companies, Inc.
Recycling Services Intl, LLC.

SERVICES

Baler Service Company
DADE Auctions
DADE Capital Corp.
Insurance Office of America
VZN Group, LLC.

OTHER MISCELLANEOUS

Best Process Solutions
Brokk Inc.
ClearSpan Fabric Structures

DADE Capital, Corp.
Foam Equipment & Consulting Co.
Mallin Companies, Inc.
Recycling Services Intl, LLC.
RRS (Resource Recycling Systems Inc.)
Stern Consulting
Tufner Weighing Systems
Umicore
VZN Group, LLC.

Organics & Composting

CHIPPERS

Bandit Industries, Inc.
BCA Industries
DuraTech Industries International Inc.
Morbark Inc.
National Attachments, Inc.
Precision Husky Corporation
Vecoplan, LLC
Vermeer Corporation

SHREDDERS, GRINDERS, & HOGS

Action Equipment Company Inc.
BCA Industries
DuraTech Industries International Inc.
Evashred Shredders, New Zealand
F V Evans Engineering Limited
Indeco North America
Komptech Americas
Morbark Inc.
National Attachments, Inc.
OBC Industrial
Shred-Tech
Vecoplan, LLC
Vermeer Corporation

TUB GRINDERS

Action Equipment Company Inc.
Armorhog®
Bandit Industries, Inc.
DynaHog
HogZilla Grinders
Morbark Inc.
National Attachments, Inc.
Precision Husky Corporation

SCREENS

Action Equipment Company Inc.
BCA Industries
CPM Di Piu Systems
F V Evans Engineering Limited
Flipscreen
National Attachments, Inc.
Precision Husky Corporation
RRS (Resource Recycling Systems Inc.)
Steinert US
Vermeer Corporation

OTHER ORGANIC PROCESSING

Flipscreen
International Baler Corporation
RRS (Resource Recycling Systems Inc.)
Shred-Tech

Paper Processing

BALERS

Baler Service Company
CPM Di Piu Systems
Ely Enterprises Inc.
Engineered Recycling Systems, LLC
Excel Manufacturing, Inc.
Harmony Enterprises, Inc.
Harris
International Baler Corporation
Maren Balers & Shredders
OBC Industrial
Pro-Tainer, Inc.
RCBC Global, Inc.
Recycling Equipment Inc.
Sebright Products, Inc.
Sierra International Machinery, LLC.

BALING WIRE SYSTEMS & SUPPLIES

Ely Enterprises Inc.
Harmony Enterprises, Inc.
International Baler Corporation
Maren Balers & Shredders

OBC Industrial
Recycling Equipment Inc.

OPTICAL SORTERS

OBC Industrial

SHREDDERS

BCA Industries
OBC Industrial
Pro-Tainer, Inc.
Recycling Equipment Inc.
Vecoplan, LLC

SORTING LINES

OBC Industrial
RCBC Global, Inc.
Recycling Equipment Inc.
Steinert US

OTHER PAPER PROCESSING

Ameri-Shred Corp.
Blackrock Plastics, LLC
CPM Di Piu Systems
F V Evans Engineering Limited
OBC Industrial
ShredSupply, Inc.
Shred-Tech
Tufner Weighing Systems

Plastic Processing

CLEANING SYSTEMS

Blackrock Plastics, LLC
CPM Di Piu Systems
OBC Industrial

DENSIFIERS

CPM Di Piu Systems
Ely Enterprises Inc.
Foam Equipment & Consulting Co.
Harris
OBC Industrial
Sebright Products, Inc.
Sierra International Machinery, LLC
Warren & Baerg Manufacturing, Inc.

EXTRUDERS & PELLETIZERS

Blackrock Plastics, LLC
CPM Di Piu Systems
OBC Industrial

GRANULATORS

BCA Industries
Foam Equipment & Consulting Co.
Herbold Meckesheim USA
OBC Industrial
Republic Machine, Inc.
Shred-Tech
Vecoplan, LLC

MECHANICAL SEPARATION

Ameri-Shred Corp.
Bunting Magnetics Co.
Foam Equipment & Consulting Co.
OBC Industrial
Shred-Tech
Vecoplan, LLC

OPTICAL SORTERS

F V Evans Engineering Limited
OBC Industrial

PERFORATORS

Foam Equipment & Consulting Co.
OBC Industrial
Steinert US

SHREDDERS

BCA Industries
OBC Industrial
Recycling Equipment Inc.
Republic Machine, Inc.
Vecoplan, LLC

WEAR PARTS

OBC Industrial
Recycling Equipment Inc.
Vecoplan, LLC

OTHER PLASTIC PROCESSING

International Baler Corporation
MPI (Magnetic Products Inc.)
OBC Industrial
Sebright Products, Inc.
Shred-Tech
Sierra International Machinery, LLC
Tufner Weighing Systems
Vecoplan, LLC

Tire & Rubber Recycling

BALERS

AutoDrain
E-Z Crusher/R.M. Johnson Company
Eagle International
International Baler Corporation
Harmony Enterprises, Inc.
Maren Balers & Shredders
OBC Industrial
RCBC Global, Inc.
Sierra International Machinery, LLC

GRANULATORS

BCA Industries
Eldan Inc.
Komptech Americas
OBC Industrial
RCBC Global, Inc.
Shred-Tech
Wendt Corp.

SHREDDERS

Ameri-Shred Corp.
AutoDrain
Bandit Industries, Inc.
BCA Industries
Eagle International
Evashred Shredders, New Zealand
F V Evans Engineering Limited
Komptech Americas
Morbark Inc.
OBC Industrial
RCBC Global, Inc.
Republic Machine, Inc.
Shred-Tech
Vecoplan, LLC

OTHER TIRE & RUBBER RECYCLING

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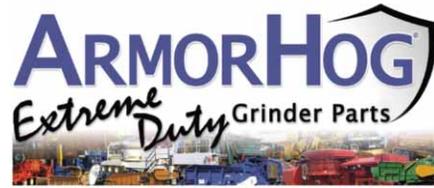
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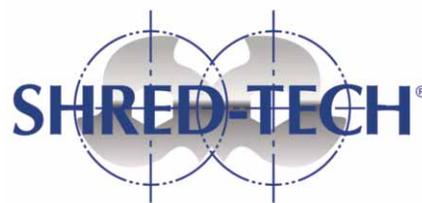
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