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NewsVoice of Salvage, Waste and Recycling

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# Recyclability of electric vehicle batteries scrutinized

by MAURA KELLER

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Faced with high energy costs, environmental concerns by consumers and government regulatory measures, the world's leading automakers are embracing new technological advancements to make today's vehicles more fuel efficient and environmentally friendly than ever before. One alternative vehicle technology, electric vehicles (EVs), is making inroads in the minds of consumers who are eager to "go green" in their vehicle choice and leave a smaller carbon footprint. As the electric vehicles industry continues to grow, the reality of the recyclability of the unique batteries of these vehicles is top of mind for many within the recycling and automotive industries.

Recycling of electric vehicle batteries is not a standardized process as of now. This is because the current batteries used in electric vehicles are not standardized.

As Vinayak Yannam, manager of business research and advisory at Aranca explained, the variations in batteries comes in the form of different number of cells – some are lithium ion based, while some are nickel metal hydride batteries.

"Basically manufacturers are using their own formulations," said Yannam, who actively tracks developments in the manufacturing and automotive sector across the U.S., UK, Germany, Japan and China. "There are only a handful of specialist recyclers currently operating in the market. Further, owing to the small base of electric vehicle batteries that need recycling, it is currently not economically viable for recyclers. As a result, the current lot of used electric vehicle batteries is being stored away until it becomes economically viable to recycle them."

At present, car manufacturers such as Honda, Tesla, GM and Nissan have created capabilities to recycle batteries for their respective electric vehicles.

"In the long term, these automakers would have to collaborate to develop standardized batteries, which would make recycling of these batteries standardized as well," Yannam said. "This would create opportunities for recyclers to collaborate with automakers to take on recycling responsibilities."

According to Rajit Gadh, PhD, professor at UCLA's Henry Samueli School of Engineering and Applied Science, the first generation of batteries for electric vehicles (EVs) were designed with energy density, power density, weight, performance, number of cycles, reliability and safety in mind.



Today's electric vehicle batteries were not designed for recycling but changes are coming.

PHOTO BY XDEW77 | DREAMSTIME

"However, not enough thought was given to their reuse, recycling, demolishing or disassembly," Gadh said. "Future generations of batteries are expected to have these features as more and more EVs come into the market and batteries from old EVs are discarded. A key issue is cost since these batteries need to be redesigned for the reuse, recycling, disassembly and demolishing need."

### Key Issues

Today EV batteries are not adequately designed for recycling. Because of this, the waste and the technology industries have moved aggressively and several startups around the world are looking at reusing the batteries from EVs for non-EV applications such as home energy storage, commercial backup power, adding storage to solar panels or for grid energy storage.

"Often times upwards of half the battery life is still remaining for applications where the technical needs are not that stringent – as they are for an automobile," Gadh said. "These startups are looking at creative business models for these opportunities. Beyond this, other startups are looking at separating out metals from the batteries for reuse. However, separating out materials after the battery has lived its 'EV life' is perhaps not the best use of the resource since these batteries still have a lot of juice left in them for a 'second life.'"

Indeed, as Yannam explained, it is estimated the present generation of electric vehicle batteries have a shelf life of 8 to 10 years. Further, the present generation of electric car batteries may still have 60 to 70 percent of usable energy left, which provides an opportunity to re-use them.

"A market for 'second-life battery packs' is also forecasted to emerge around the year 2030," Yannam said. "However, there are several challenges that need to be addressed, including limited life cycles of current batteries, undefined safety standards, difference of wear and tear across each cell within a battery, among others."

Another key recycling issue facing the EV market as older EVs enter the recycling and disassembling stage is the need for recycling facilities.

As Gadh explained, plants need to be built for recycling the batteries – whether they are for a secondary market or whether their materials are recycled.

"Today the number of EVs in the market is small but as the number increases, there will be business opportunities to create large factories," Gadh said. "This would be very much along the lines of Tesla's Gigafactory that was created by Tesla founder, Elon Musk, when he realized the electric vehicle market is going to grow rapidly and substantially

See EV BATTERIES, Page 4

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## NRC names award recipients

The National Recycling Coalition honored their recycling awards recipients at the 2017 Resource Recycling Conference in Minneapolis. The awards were presented to the winners, along with the recipients of the Murray J. Fox Scholarship, at the Conference Welcome Reception hosted by the NRC and the Recycling Association of Minnesota.

The awards program is designed to honor and recognize outstanding individuals, programs, and organizations around the country, both for their achievements, and to serve as a model and a resource for learning for NRC members.

Award categories include higher education, not-for and for-profit organizations, business leadership, and recognition of outstanding programs. The NRC will post information on all winners on their website.

### 2017 Awards and Recipients

- Outstanding Business Leadership For-Profit Company- Avaya Stadium (San José, California)
- Outstanding Not-for-profit Business Leadership Cooperative Teamwork & Recycling Assistance: CTRA (Austin, Texas)
- Outstanding Not-for-profit Business Leadership Honorable Mention-Northeast Resource Recovery Association: NRRRA
- Outstanding Recycling Organization- the Michigan Recycling Coalition: MRC

- Outstanding Higher Education- the University of Florida

- Outstanding Higher Education Honorable Mention- The University of Illinois at Chicago, Office of Sustainability

- Outstanding Community or Government Program- South Central Solid Waste Authority: SCSWA

- Outstanding Community or Government Program Honorable Mention- Emmet County, Michigan Recycling

- Bill Heenan Emerging Leader-Samantha Yager: recycling coordinator for the City of Columbia, South Carolina and Tori Carle: City of Greensboro, North Carolina recycling educator at 'Operation Bed Roll'

- Lifetime Achievement in Recycling- Arthur Boone, California

Notable supporters and contributors of these awards include: Steel Recycling Institute- Dave Keeling; ISRI – Robin Weiner; Alpine Waste-Brent Hildebrand; EmergeKnowledge/Re-TRAC-Rick Penner; Skumatz Economic Research Associates – Lisa Skumatz; The Recycling Partnership – Dylan De Thomas; Pennsylvania Recycling Markets Center, Inc.-Bob Bylone; CU Boulder-Jack DeBell; Paper Recycling Coalition-Fran McPoland; George Dreckmann- NRC board member; Puerto Rico Recycling Coalition – Antonio Rios; Mid-America Recycling-Mick Barry; Key Energy – Gary Bilbro.

## On 30th anniversary of California Bottle Bill, recycling rates decline

As California's Bottle Bill celebrated its 30th anniversary, recycling rates are tumbling as some recycling centers close due to inaction in the state legislature to fix the program.

According to former Assembly-member Burt Margolin (D-Los Angeles), the author of the legislation, Assembly Bill 2020, "The legislation set a goal of 80 percent beverage container recycling, which we exceeded in 2008, reaching as high as 85 percent in (2013). But as of mid-2017, recycling rates have slid backwards and now are at 77 percent. There's an easy fix the Legislature can make in the next few weeks to reverse that trend."

More than 560 recycling centers have closed during the past 2 years – approximately 20 percent of the statewide total. These closures have been driven by a two year drop in recycler reimbursement levels.

As a result, more than 2.5 million fewer containers per day are being recycled this year than in the last reporting period.

Legislation advanced by Assembly Budget Committee Chairman Phil Ting and supported by the Brown Administration is seeking to address these issues.

California's program is the world's second largest, second only to Germany. Californians recycle more than 50 million beverage containers each day – one out of every 5 bottles recycled in the U.S.

To date, more than 362 billion containers have been recycled, preventing the emissions of more than 41 million tons of carbon dioxide – the equivalent to saving the use of nearly 96 million barrels of oil.

With more than 10,000 Californians directly employed in container recycling operations, it generated \$305 million in recycler revenue in 2016 alone (half of that revenue from curbside operations). Annual revenue of \$1.6 billion goes to the State of California, with \$20 million annually supporting recycled glass and plastic market development - manufacturing. Another \$18 million goes to Community Conservation Corps, local government and non-profits.

## McDonald's USA to sponsor Keep America Beautiful's Great American Cleanup

McDonald's has become a National Sponsor of Keep America Beautiful's Great American Cleanup (GAC), the largest year round community improvement program in the country. Efforts got underway in September with National Planting Day, a fall initiative of the GAC. McDonald's is the exclusive Presenting Sponsor of National Planting Day.

Held annually the first Saturday after Labor Day, National Planting Day kicks off the fall planting season for Keep America Beautiful's network of more than 600 state and community-based Affiliates and other local partners with events taking place through October. The annual initiative celebrates the critical nature of native plants and trees in enhancing biodiversity, rebuilding ecosystems and supporting pollinator health. Beautiful public places transcend aesthetic appeal to positively impact the lives of area residents, visitors, businesses and institutions. Green spaces restore our communities, helping to make them more environmentally healthy, socially connected, and economically sound. National Planting Day focuses on four areas of need:

- Increasing the number of native trees in public spaces.

- Bringing natural beauty and sustainable urban infrastructure to "built environments."

- Creating community-supported sustainable vegetable and fruit gardens.

- Greening and restoring vacant lots with low-maintenance indigenous plants and trees in underserved urban and rural neighborhoods.

Celebrating its 20th anniversary in 2018, the Great American Cleanup is the nation's largest community improvement program with an estimated 60,000 events occurring from spring through fall in more than 20,000 communities across the country. The Great American Cleanup annually engages millions of volunteers throughout the country to help renew parks, trails and recreation areas; clean shorelines and waterways; remove litter and debris; reduce waste and improve recycling; and plant trees, flowers and community gardens, among other activities to inspire a new generation of community stewards. National sponsors of the Great American Cleanup include Altria, Dow, The Glad Products Company, Lowe's, Niagara Bottling and ReadyRefresh<sup>SM</sup> by Nestlé<sup>®</sup>.

*A teacher asked her students to use the word "beans" in a sentence. "My father grows beans," said one girl. "My mother cooks beans," said a boy. A third student spoke up, "We are all human beans."*

## METAL RECYCLERS

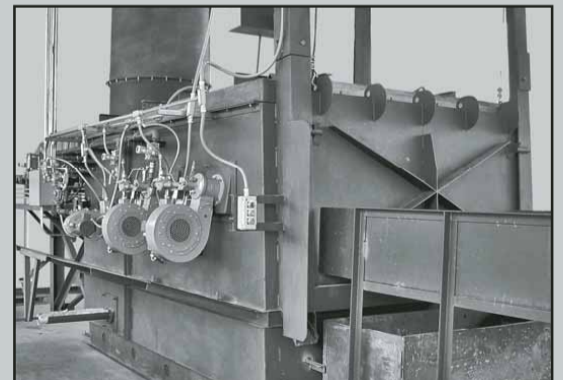
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# EV batteries

Continued from Page 1

and he would need batteries for his cars. It does require a visionary to see this new opportunity.”

Given that an EV does not have an engine, carburetor, oil sump, a variety of pumps, motors, pistons, etc., the number of components that are problematic from a recycling, reuse, and environmental standpoint as compared to an internal combustion engine (ICE) are far less.

Therefore, comparing an ICE car to an EV, excluding the battery of the EV, the ICE car recycle, reuse, and disassembly is far more complex and expensive.

“The main issue is the battery itself and innovative ideas around the world are aggressively trying to solve this issue,” Gadh said. “Separate from the battery, given that the EV has far less vibration, noise, etc., than an ICE, its overall body and structure should last longer than an ICE vehicle body – making it better for the environment in this respect.”

Pablo Solomon, designer, futurist and former science consultant to the U.S. Department of Education said one of the biggest issues facing the recycling of EV batteries includes the inherent chemicals involved. “Some of the chemicals in these advanced batteries have a toxicity that makes lead and sulfuric acid battery chemicals look like distilled water,” Solomon says. “Things like cobalt and lithium have a whole set of chemical properties that are tougher with which to deal.”

In addition, some of the processes are expensive and complicated.

“And as we are still in the development stage with new electrolytic compounds being developed at a rapid rate, it may just be too difficult to tool up,” Solomon says.

Another challenge of the powerful batteries needed to run electric cars is that they can zap first responders and/or people trying to repair or salvage parts. While these are not necessarily deadly zaps, they can definitely stun and even cause burns.

“First responders are in the process of being trained on how to avoid being zapped by electric cans and salvage people will also need to be trained,” Solomon said.

### Down the Road

Given that the automotive industry is in such early stages of R&D in this EV industry, industry experts believe we have a long way to go in this industry in terms of the evolution of products and the recyclability of components.

“Perhaps a greater challenge is that improvement of batteries is progressing very quickly,” Solomon says. “The batteries now being manufactured by Tesla at their billion dollar plant will be outdated before they hit full production of their cars. As the efficiency of new batteries improves and the cost of manufacturing goes down, present batteries will be worthless except to car collectors.”

Like any emerging technology, electric cars are at an early stage. And at this stage they are expensive and primitive compared to what they will be in just a few years.

“Within 10 years, putting money into a used Tesla will be like putting money into a model T in 2017,” Solomon said. “While it might be a fun hobby, any practical use will be gone.”

That said, as excitement continues to build as new products enter the market, a host of ancillary and services industries will arise – much like the entire supply chain arose around Detroit’s automotive industry.

“The difference now is that California seems to be a contender for leadership in the EV space alongside Detroit with Tesla in northern California and companies such as Faraday Future and Pro Terra in Southern California,” Gadh said. “The resulting technology suppliers and supply chain will have the opportunity to grow very rapidly in California – which undoubtedly would include battery recyclers and reusers.”

Given that California is among the leading environmentally friendly states in the world, there are companies that provide services such as battery reuse, battery refurbishing for EVs, which involves a tuning operation of a battery, and using batteries as backup, etc.

“Taking this a step further by recycling the metals within EV batteries such as nickel or lithium would be the next step in making the automobile transportation sector even cleaner,” Gadh said. “There are already tech startups looking into this opportunity, so I believe that the future of recycling of electric vehicle batteries and electric vehicles overall is very exciting.”



NewsVoice of Salvage, Waste and Recycling

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

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

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## Events Calendar

### October 22nd-24th

WV Educational Conference on Litter Control & Solid Waste Management Conference. Pipestem Resort State Park, Pipestem, West Virginia.  
304-573-5194 • www.awvswa.com

### October 25th-26th

Canadian Waste & Recycling Expo. Scotiabank Convention Center, Niagara Falls, Canada.  
403-589-4832 • www.cwre.ca

### November 1st-4th

Automotive Recyclers Association Annual Convention & Expo, Hyatt Regency, Dallas, Texas, 615-223-6656, www.a-r-a.org

### November 13th-14th

Northeast Recycling Council Fall Conference. Lord Jeffery Inn, Amherst, Massachusetts.  
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## 2017 Recycle-Bowl launched

Keep America Beautiful, the nation's community improvement non-profit organization, plans to ignite a passion for recycling in schools across the country with the launch of its 7th Annual Keep America Beautiful Recycle-Bowl. Registration is now open for the fall recycling competition at <http://Recycle-Bowl.org>.

Recycle-Bowl, Keep America Beautiful's national K-12 school based recycling competition, begins on October 16 and culminates on America Recycles Day, November 15.

Champions are crowned in five categories: School Division, Community Division, District Division, Waste Reduction and Food Scrap Collection. Through participation in Recycle-Bowl and America Recycles Day, the only nationally-recognized day dedicated to promoting and celebrating recycling in the U.S., Keep America Beautiful is helping communities spotlight recycling on a local level by educating students and community members on how and what to recycle, while providing an array of resources to improve recycling in America.

"Keep America Beautiful is determined to end littering, improve recycling, reduce waste and beautify America's communities," said Brenda Pulley, senior vice president, recycling, Keep America Beautiful. "Recycle-Bowl and America Recycles Day are key fall initiatives to educate, motivate and activate individuals and entire communities to better understand what to place in recycling bins and the many environmental, economic and social benefits of recycling."

New this year, Recycle-Bowl is partnering with PepsiCo, a presenting sponsor, to offer participants the opportunity to concurrently sign up for PepsiCo's Recycle Rally program. "Keep America Beautiful's Recycle-Bowl is a great way to get schools and communities fired up about recycling, and we think Recycle Rally is a natural complement to extend that level of engagement throughout the rest of the school year," said Tom Mooradian, PepsiCo sustainability manager. Recycle Rally rewards schools for recycling beverage containers and offers frequent promotions and access to free downloadable resources to help schools boost recycling. More information on this collaboration will be available in the coming weeks.

Registration for the four week in-school competition is open to teachers, school administrators, school facility managers, PTA/PTO and other parent groups and local recycling advocates. Recycle-Bowl registration will remain open until October 10, one week before the start of the competition. Nearly 700,000 students and teachers from more than 1,290 schools across the nation competed in the 2016 Recycle-Bowl.

Recyclables recovered during the 2016 Recycle-Bowl competition totaled 3.2 million pounds across 47 U.S. states, with Bon Air Elementary of Kokomo, Indiana, crowned as the 2016 champion. Whether a school has an existing recycling program or is looking to launch one, Recycle-Bowl is an excellent way for teachers, students and facility managers to engage their entire school community in recycling.



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# Atlantic Coast Recycling awarded operating contract

Atlantic Coast Recycling disclosed that they have been awarded a five year contract to operate and maintain the Ocean County Recyclable Materials Processing Facility in Lakewood, New Jersey.

Atlantic Coast Recycling is responsible for furnishing all labor, materials and equipment necessary for the operation and maintenance of the facility as well as the marketing for all the recyclables processed. The contract also includes the operation of the Southern Recycling Center in Stafford Township, New Jersey.

The Ocean County Recyclable Materials Processing Facility is the largest county owned recycling facility in New Jersey, and one of the largest county owned facilities in the U.S. The facility receives and processes over 80,000 tons per year of recyclables, from every municipality in the County of Ocean.

Ernest J. Kuhlwein, director of Ocean County Solid Waste Management, commented, "The County looks forward to working with Atlantic Coast Recycling and seeing what improvements they will bring to the recycling facility. ACR was selected for several

reasons we considered advantageous to the county, in addition their proposal offered the highest financial return to the county and its municipalities."

Since taking over the facility, Atlantic Coast Recycling has made significant changes to the operation, including almost doubling the number of workers.

"One of the first changes we made was to increase the number of line sorters and incorporate QC personnel into the mix," said Marc Rudman, plant manager. "We strongly believe in a proactive approach to recycling, and the only way you can guarantee good quality is by having someone check the material, and that's why we added QC people on the line."

Atlantic Coast Recycling is the largest independent processor in New Jersey, and one of the largest in the U.S. In addition to the Ocean County location, they operate two sites in Monmouth County and two sites and corporate offices in Passaic County. With the addition of the Ocean County site, Atlantic Coast Recycling processes on average 30,000 tons per month of recyclables, while employing almost 300 people.

# Nucor declares 178th cash dividend

The board of directors of Nucor Corporation declared the regular quarterly cash dividend of \$0.3775 per share on Nucor's common stock. This cash dividend is payable on November

9, 2017 to stockholders of record on September 29, 2017, and is Nucor's 178th consecutive quarterly cash dividend.

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# Call2Recycle's Charge Up Safety Campaign spotlights battery recycling safety

Safety related and fire incidents involving hoverboards, cellphones, headphones and laptops are making the headlines. Many of these incidents are being traced to batteries, further intensifying safety concerns.

To address similar concerns presented by collecting used batteries for recycling, Call2Recycle®, Inc., North America's largest consumer battery stewardship and recycling organization, has launched the Charge Up Safety campaign.

The objective is to raise the awareness of safe collection and shipping practices among those involved in the collection and shipment process, including consumers, municipalities, retailers, sorters, processors and Call2Recycle employees. Call2Recycle collects and recycles single use and rechargeable batteries under 11 lbs. and has diverted approximately 130 million lbs. from landfills during the past 21 years.

"Our #1 objective as an organization is the SAFE collection and recycling of batteries," said Carl Smith, chief executive officer and president, Call2Recycle, Inc. "We are launching Charge Up Safety to ensure that the importance of safety isn't forgotten in

our commitment to sustain the environment."

Call2Recycle has launched a new safety portal, a one-stop hub of safety information on how to safely recycle and ship batteries. Collection site employees and consumers will be able to take an online training module that tests their battery handling knowledge. Instructions for handling damaged, defective and recalled batteries are also featured. Additional safety policies for collection sites, sorters and processors are being implemented. Organizations that do not follow the policies may be suspended or terminated from the program.

"As the volume and types of batteries in the marketplace expand, so do the risks for an incident," said Smith. "Rechargeable batteries can hold a residual charge, and when they come into contact with another metal they can cause a spark, which can escalate into a fire or explosion. At the highest risk are the lithium ion rechargeable batteries found in many of today's portable devices such as cellphones, laptops, tablets and power tools."

Call2Recycle offers over 14,000 public drop-off sites where consumers can recycle their batteries at no cost.

# Chittenden County, Vermont leads nation's households in recycling mercury thermostats

Chittenden County, Vermont leads the U.S. in its recycling program for mercury-containing thermostats, according to a recent report from the Thermostat Recycling Corporation (TRC) that measured county recycling efforts.

The Green Mountain State's Chittenden County collected 2,280 mercury-filled thermostats between 2012 and 2016. Minnesota captured second and third place, with Hennepin County finishing a close second with 2,274 thermostats, followed by Olmstead County with 1,901 units.

"Chittenden County is an example of what a community can do to recycle mercury thermostats successfully," said Ryan Kiscaden, executive director, TRC. "When you have a committed program, staff that understands the recycling process, and an informed and dedicated public that participates in recycling efforts, it demonstrates why they're No. 1."

The county has been conscious of the need for recycling for decades, according to Jen Holliday, compliance program and product stewardship manager for the county. "Our goal is to get our residents and businesses to keep hazardous materials out of the waste stream and to recycle as much as possible—

including mercury-containing thermostats," she said.

They maintain a fully staffed hazardous waste collection facility with four full time employees and also have seven drop off locations that collect mercury-containing thermostats throughout the county.

Chittenden County's geography is a plus in the collection process. It encompasses Burlington, the largest city in Vermont, representing about 25 percent of the state's population, according to Holliday. The state also mandates a \$5 rebate for every thermostat that a contractor or consumer turns in.

Part of the success of their overall program is the culture of the residents, said Holliday. They also have a broad and continuous educational and media relations program touting the benefits of recycling. It's not a hard sell in Chittenden County, which Holliday describes as a "progressive" area. "There are several universities and colleges in the county with lots of young, highly educated people who recognize the benefits of recycling," she said.

Community culture and geographic awareness contributed to Chittenden County's top finish, but its outreach program also played an important role.



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# OSHA deadline extended for crane operator certifications

The Occupational Safety and Health Administration (OSHA) today issued a Notice of Proposed Rulemaking to extend the employer's responsibility to ensure crane operator competency and enforcement for crane operator certification to November 10, 2018.

OSHA issued a final rule in September 2014, extending the deadline by three years for crane operator certification requirements in the Cranes and Derricks in Construction standard. The final rule also extended by three years the employer's responsibility to ensure that crane operators are competent to operate a crane safely.

The agency is now proposing an extension of the enforcement date to address stakeholder concerns over the operator certification requirements in the Cranes and Derricks in Construction standard.

Under the Occupational Safety and Health Act of 1970, employers are responsible for providing safe and healthful workplaces for their employees. OSHA's role is to ensure these conditions for America's working men and women by setting and enforcing standards, and providing training, education and assistance.

For more information, visit [www.osha.gov](http://www.osha.gov).



## Environmental Research & Education elects new board

The board of directors of the Environmental Research & Education Foundation (EREF) has elected three new members:

•Tim Benter, vice president, engineering and environmental compliance at Republic Services

•John Casella, chairman and chief executive officer at Casella Waste Systems

•Mike de Castro, executive vice president, supply chain at Covanta

EREF's board of directors consists of executives representing all aspects of the waste industry including haulers, facility owners, consulting firms and waste equipment manufacturers. The appointment of the new board members aligns with the five year expanded strategic direction set forth by the Board in 2016 to position EREF as a leading source of waste industry funding, education and research.

### Tim Benter

Since 2016, Tim Benter has worked with Republic Services as vice president, engineering & environmental compliance, a role in which he manages corporate and field engineering and environmental compliance strategy, planning and execution. Previously, he served 18 years within Republic Services' legal department, most recently as vice president and deputy general counsel. He has been a member of the Phoenix Suns Charities' board of directors since 2012.

Benter holds a Bachelor of Science in Finance from the University of Maryland, a Juris Doctor from Nova Southeastern University and is pursuing a Master of Business Administration from Arizona State University.

### John Casella

John Casella has served as Casella Waste System's chairman of the board of directors since July 2001 and as chief executive officer since 1993. Additionally, he served as the company's president from 1993 to July 2001 and as chairman of the board of directors from 1993 to December 1999. Casella received an Associate of Science in Business Management from Bryant & Stratton College and a Bachelor of Science in Business Education from Castleton State College.

### Mike de Castro

Mike de Castro began working for Covanta in 2015 as executive vice president, supply chain.

Throughout his 33 year career in the waste industry, he has served in various roles including chief executive officer of Interstate Waste Services, director of global operations Americas for Air Products and Chemicals, Inc. and vice president of operations for American Ref-Fuel Company. De Castro received his Bachelor of Science in Mechanical Engineering from the University of Alabama in 1984 and his Master of Business Administration from Boston University in 2002.

## California companies awarded for outstanding product stewardship

Four companies with ties to California will be honored by the California Product Stewardship Council (CPSC) for their innovative environmental efforts during the organization's 8th Annual Arrow Awards ceremony. Labcon, Smart Planet Technologies, Planet Recycling, Inc. and Walgreens will receive statewide recognition respectively for overall excellence in product stewardship, system and design innovations, coalition building and product-take-back.

"We are delighted to honor companies that both in big and small ways are helping to change the way we deal with our trash," said Heidi Sanborn, CPSC executive director.

Labcon is the recipient of the 2017 Golden Arrow Award for Overall Excellence in Product Stewardship. A company that produces labware consumables with 100 percent recyclable packaging and uses vegetable based soy inks exclusively. Labcon is committed to reducing their water and energy use, waste production and greenhouse gas emissions, with some of their manufacturing processes even sequestering CO2 from the atmosphere.

Smart Planet Technologies will receive the 2017 Green Arrow Award for System and Design Innovations. Smart Planet is an intellectual property and materials engineering company that developed reCUP, the first commercially

available paper cup that's engineered for recycling. reCUP use 51 percent less plastic than traditional poly-coated paper cups and can be processed through existing paper recycling equipment as if there is no coating applied at all through the use of their EarthCoating technology, a highly mineralized resin alternative to 100 percent plastic coatings for paper based packaging.

Planet Recycling, Inc. is the winner of the 2017 Bow & Arrow Award for Coalition Building for building partnerships and demonstrating the inter-dependence amongst stakeholders. Planet Recycling is a carpet and pad recycling company that services all of San Diego County. In the recycling business for over 50 years, Planet Recycling collaborates with producers, distributors, retailers, public agencies and other stakeholders to improve the solutions for the carpet recycling industry.

Walgreens will be presented with the 2017 Infinity Arrow Award for Service and Take-Back. Walgreens' Safe Medication Disposal Program provides safe medication disposal kiosks at over 600 24-hour locations in 45 states and the District of Columbia. Since program inception in February 2016, the Walgreens' kiosks have collected over 72 tons of medications at no cost to the public. Walgreens' program is the first ongoing national effort by a retailer.

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## ALTERNATIVE ENERGY

# Kimberly-Clark to power mills with wind

Kimberly-Clark Corporation made its first major commitment to renewable energy with agreements to annually purchase approximately 1,000,000 megawatt hours (245 megawatts - MW) of electricity from two new wind power projects in Texas 2 Oklahoma. The renewable energy supplied by the wind farms is equivalent to about one-third of the electricity needs of Kimberly-Clark's North American manufacturing operations and will enable the company to surpass its greenhouse gas (GHG) reduction goal 4 years earlier than anticipated.

Kimberly-Clark has entered long-term power purchase agreements to take 120 MW or 78 percent of electricity to be generated by the Rock Falls Wind project being developed by EDF Renewables in northern Oklahoma and 125 MW or 42 percent of the electricity to be generated by the Santa Rita Wind Energy Center being built by Invenegy in West Texas. The renewable energy supplied by the 2 wind farms will enable Kimberly-Clark to reduce its greenhouse gas emissions by up to 550,000 metric tons annually.

"These agreements mark Kimberly-Clark's first use of utility-scale renewable energy and are a step-change in our energy and climate strategy to reduce climate change impacts, improve operating efficiency and benefit cost savings," said Lisa Morden, global head of sustainability at Kimberly-Clark. "Adding wind generated electricity to the energy mix will enable the company to achieve more than a 25 percent reduction in GHG emissions in 2018, which is 4 years ahead of the original 2022 target to reduce absolute greenhouse gas emissions by 20 percent from 2005 levels."

These two renewable energy projects build on extensive work undertaken by Kimberly-Clark to reduce its carbon footprint and create business value through greater energy efficiency, conservation and alternative energy programs.

The Rock Falls Wind project will become operational by the end of 2017, and the Santa Rita facility is expected to begin commercial operation by the second quarter of 2018.

# MagneGas reports no damages from Hurricane Irma

MagneGas Corporation, a clean technology company in the renewable resources and environmental solutions industries, shared that all personnel are accounted for and the company's properties and equipment appear to have escaped damage.

"We would like to thank the local and state authorities as well as the police, fire and rescue services for putting themselves in harm's way to save lives and rescue the vulnerable and weary. With over 60 percent of Florida or 6.5 million homes in Florida without power, our state has much cleanup and rebuilding to urgently perform. The

MagneGas team is very experienced in demolition and rebuilding, and stands ready to provide its expertise and resources in this time of need," commented MagneGas chief executive officer Ermanno Santilli.

"We also extend our sympathies to those in the Caribbean most devastated by the storm, and plan to donate a portion of our production to help in rescue and rebuilding operations. The whole MagneGas family is heartbroken by the affects Irma had on our great state, our country, and families throughout the Caribbean, and we are eager to help in any way possible."

## CONSTRUCTION & DEMOLITION

# Green Business Certification launches waste rating system

Green Business Certification Inc. (GBCI), an organization independently recognizing excellence in green business industry performance and practice globally, unveiled TRUE (Total Resource Use and Efficiency), the new brand identity for its zero waste rating system. The TRUE Zero Waste rating system helps businesses and facilities define, pursue and achieve their zero waste goals through project certification and professional credentialing.

According to the EPA, the average American generates 4.4 pounds of trash each day. TRUE is a whole systems approach that helps organizations understand how materials flow through their facilities and identify redesign opportunities so that all products are reused. TRUE certified projects meet a minimum of 90 percent waste diversion for 12 months from landfills, incinerators (waste-to-energy) or the environment. TRUE is administered by GBCI and serves as a compliment to the existing LEED green building rating system.

"By driving the adoption of green practices at all levels of business, we significantly impact greenhouse gases, manage risk and improve the health and wellbeing of employees and the community," said Mahesh Ramanujam, president and chief executive officer, USGBC and GBCI. "By closing the loop on waste, organizations can become more resource efficient, discover potential new revenue streams and save money. TRUE delivers

the business case for addressing waste."

Currently, there are 88 TRUE-certified facilities around the world. TRUE focuses on helping businesses, industrial sectors and schools quantify their performance and find additional ways to move toward zero waste. Microsoft, Tesla, Sierra Nevada Brewing Co., Nature's Path, Earth Friendly Products, Raytheon, Cintas and Northrop Grumman, among others, have facilities certified under the program. The TRUE Zero Waste certification, previously administered by the U.S. Zero Waste Business Council, was acquired by GBCI.

"Our goal is to help develop a zero waste economy for all that delivers financial, environmental and social benefits," said Stephanie Barger, director, TRUE Zero Waste program. "The TRUE team is working with organizations across industries to help set benchmarks, track performance, educate employees and deliver innovative solutions that move them closer to zero waste."

GBCI rating systems, like TRUE and LEED, are committed to driving the adoption of green business practices that foster global competitiveness and enhance environmental performance and human health benefits. From waste to responsible land development to sustainable power systems, GBCI rating systems work across all sectors, applying rigorous standards that verify performance and encourage sustainable practices that are economically, environmentally and socially responsible.

# Hyundai Construction Equipment to donate \$50,000 for hurricane relief

Hyundai Construction Equipment Americas, Inc., said it is supporting Hurricane Harvey relief efforts through an immediate \$50,000 corporate donation to the United Way of Greater Houston. The company is calling on its construction equipment and forklift dealers throughout North America to join in this fundraising effort before the end of the month.

Because Hyundai dealers with locations along the coastal area of Texas have employees who were severely impacted by Hurricane Harvey, Hyundai, its employees

and dealer personnel also collected funds in September, specifically to provide some needed relief for these individuals.

In addition, Hyundai Forklift is making arrangements to donate a forklift to a Houston-area nonprofit organization for use in cleanup and rehab efforts.

United Way of Greater Houston guarantees that 100 percent of all funds donated will assist the people of Houston and other neighboring communities who were most affected by Hurricane Harvey.

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## PAPER

# AF&PA releases updated paper reports for July 2017

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

### Containerboard

Containerboard production was 5.2 percent higher compared to July 2016. The month-over-month average daily production compared to June 2017 was 1.7 percent higher. The containerboard operating rate for July increased from 96.3 percent to 97.9 percent, which was 2.8 percentage points higher compared to July of last year. Year-to-date production of containerboard for export is up 6.3 percent.

### Printing-Writing Paper Report

According to the July 2017 printing-writing monthly report from the American Forest & Paper Association, total printing-writing paper shipments decreased five percent in July compared to July 2016. This is the 11th consecutive year-over-year decrease following a modest fractional increase in August 2016. All four printing-writing grade categories posted year-over-year shipment declines in July. Total printing-writing paper inventory levels increased two percent from June 2017.

•July uncoated free sheet (UFS) paper shipments decreased year-over-year at the lowest rate since the last increase in August 2016. Imports of UFS decreased by 22 percent year-over-year in June while exports of UFS papers

increased 41 percent year-over-year in June. The 68,200 tons exported in June was the highest level of UFS exports since March 2015.

Shipments of uncoated mechanical (UM) papers decreased year-over-year in June for the 13th consecutive month. Imports of UM increased 8 percent year-over-year in June.

•July shipments of coated free sheet (CFS) papers declined for the second consecutive month following the only year-over-year increase in 2017. Shipments of coated one-side free sheet papers decreased three percent year-over-year in July but remain flat for the year-to-date. U.S. imports of CFS papers increased 8 percent year-over-year in June.

•Coated mechanical (CM) paper shipments declined year-over-year in July, the second consecutive decline. Imports of CM decreased in June, down 5 percent compared to June 2016 while exports of CM increased 12 percent in June.

### Boxboard Report

Total boxboard production increased 2.9 percent when compared to July 2016, and increased 6.5 percent from June.

The production of Recycled Boxboard decreased compared to July 2016, and decreased when compared to June.

## PLASTIC

# New technology enables plastic to be recycled to nearly new quality

Technology removes virtually all contaminants

PureCycle Technologies, in partnership with consumer goods company P&G, hosted a ribbon-cutting for a plant that will restore used polypropylene (PP) plastic to 'virgin-like' quality with a recycling method that is one of a kind. The new plant will enable consumers to purchase more products made from recycled plastic. The patented technology was born in P&G labs as one of many innovations with meaningful sustainability benefits. P&G licensed the technology to PureCycle, a portfolio company of Innventure, a Wasson Enterprise Partnership that commercializes disruptive technologies.

Founded in 2015, PureCycle is opening a small scale plant in Lawrence County, Ohio where they will test and calibrate the PP recycling process. The small scale plant will begin operating in January 2018, and the full scale plant will open in 2020.

The global PP market is valued at more than \$80 billion, according to Transparency Market research, and is on track to reach \$133.3 billion by 2023. PP is used in automobile interiors, food and beverage packaging, consumer good packaging, electronics, construction

materials, home furnishings, and many other products.

"Our approach to innovation not only includes products and packaging, but technologies that allow us and others to have a positive impact on our environment. This technology, which can remove virtually all contaminants and colors from used plastic, has the capacity to revolutionize the plastics recycling industry by enabling P&G and companies around the world to tap into sources of recycled plastics that deliver nearly identical performance and properties as virgin materials in a broad range of applications," said Kathy Fish, P&G's chief technology officer.

"In the U.S. alone, the demand for virgin quality recycled PP is immense. The Association of Plastics Recyclers (APR) has identified 1 billion pounds of recycled PP demand in North America alone. 720 million pounds of that demand is for 'high-quality' recycled PP," said Steve Alexander, chief executive officer of the APR.

While this is a P&G-developed technology, the recycled PP will be widely available for purchase across industries.

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# METALS

## Steel imports up 22 percent YTD Finished import market share YTD at 28 percent

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported today that the U.S. imported a total of 3,472,000 net tons (NT) of steel in July 2017, including 2,868,000 net tons (NT) of finished steel (down 11.5 percent and 4.0 percent, respectively, vs. June final data). Year-to-date (YTD) through seven months of 2017, total and finished steel imports are 23,168,000 and 17,938,000 net tons (NT), up 22.1 percent and 17.3 percent, respectively, vs. the same period in 2016. Annualized total and finished steel imports in 2017 would be 39.7 and 30.8 million NT, up 20.3 percent and 16.8 percent, respectively, vs. 2016. Finished steel import market share was an estimated 29 percent in July and is estimated at 28 percent YTD.

Key finished steel products with significant import increases in July compared to June include standard pipe (up 38 percent), cut lengths plates (up 28 percent), line pipe (up 17 percent) and oil country goods (up 12 percent). Major products with significant year-to-date (YTD) increases vs. the same period in 2016 include oil country

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	JUL 2017	JUN 2017	2016 Full Year	2017 Annualized	% Change 2017 Annual vs. 2016
SOUTH KOREA	337	388	3,812	3,883	1.9%
TURKEY	252	329	2,416	2,953	22.3%
JAPAN	137	140	1,798	1,606	-10.7%
TAIWAN	120	168	1,083	1,345	24.1%
GERMANY	148	116	1,192	1,286	7.9%
CHINA	869	82	862	868	0.7%
BRAZIL	75	110	823	864	5.0%
VIETNAM	76	53	960	830	-13.6%
All Others	1,636	1,602	13,393	17,116	27.8%
<b>TOTAL</b>	<b>2,868</b>	<b>2,987</b>	<b>26,338</b>	<b>30,751</b>	<b>16.8%</b>

goods (up 254 percent), standard pipe (up 47 percent), line pipe (up 39 percent), cold rolled sheets (up 37 percent), sheets and strip all other metallic coatings (up 35 percent), mechanical tubing (up 32 percent), hot rolled bars (up 26 percent), sheets and strip hot dipped galvanized (up 25 percent), wire rods (up 13 percent) and tin plate (up 11 percent).

In July, the largest volumes of finished steel imports from offshore were from South Korea (337,000 NT, down 13 percent from June final), Turkey

(252,000 NT, down 23 percent), Germany (148,000 NT, up 27 percent), Japan (137,000 NT, down 2 percent) and Taiwan (120,000 NT, down 29 percent). For the first seven months of 2017, the largest offshore suppliers were South Korea (2,265,000 NT, down 5 percent vs. the same period in 2016), Turkey (1,723,000 NT, up 14 percent), Japan (937,000 NT, down 12 percent), Taiwan (784,000 NT, up 54 percent) and Germany (750,000 NT, up 7 percent).

## ISRI approves guidance on nonferrous specifications

The Institute of Scrap Recycling Industries (ISRI) board of directors approved additional guidance regarding ISRI's nonferrous specifications during its Summer Meeting on July 20.

As per ISRI's Policy Manual, any party may submit to ISRI a written appeal of the ISRI Board's approval of this new specification up to 30 days after publication of this notice. Written appeals must provide a rationale and a request for action and should be sent to ISRI President Robin Wiener.

The language approved for insertion at the beginning of each subsection (covering Red Metals, Aluminum, Zinc, Lead, etc.) within ISRI's Guidelines for Nonferrous Scrap: NF-2017 is as follows:

**"WHERE APPLICABLE, HEAVIER PIECES OF ANY SIZE, LENGTH, AND WEIGHT ACCEPTABLE UPON MUTUAL AGREEMENT BY BUYER AND SELLER."**

The guidance above was approved by ISRI's nonferrous division at the Spring Board & Committee Meetings in New Orleans, Louisiana on April 23, 2017 and is intended help facilitate domestic and global nonferrous scrap metal trading.

*If your life turns out to be good and you have a tremendous amount of luck in your life, it's a good thing to turn around and make it work for others.*

—Morgan Freeman

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# METALS

## Piastre promoted to president of Metallix Refining

Metallix Refining, Inc, a leader and innovator in the precious metals recycling industry for nearly five decades, announced the promotion of Maria Piastre to president, effective immediately.

As president, Piastre will manage all day-to-day operations, executing the goals and needs of the company.

Piastre joined Metallix in 2006 as a buyer for Latin America, successfully opening up that market for the company. During the last 12 years she rose to several supervisory and management positions, assuming the role of vice president in 2014.

Piastre serves on the board of the New York Metro Chapter of the International Precious Metals Institute.

## Nucor to acquire cold finish facilities

Nucor Corporation has agreed to acquire St. Louis Cold Drawn, Inc., a manufacturer of cold drawn rounds, hexagons, squares, and special sections that mainly serve the U.S. and Mexican automotive and industrial markets.

St. Louis Cold Drawn, Inc. employs 125 people and has 2 manufacturing locations, 1 in St. Louis, Missouri, and the other in Monterrey, Mexico, that have a combined annual capacity of 200,000 tons. The addition of these facilities will increase the total capacity of Nucor's cold finished bar and wire facilities to more than 1.1 million tons annually and helps advance our goal of growing our sales to automotive customers.

# Steel Joist Institute reveals list of 2017 Design Award winners

The Steel Joist Institute (SJI) disclosed the winners of the 2017 Design Awards. The awards are presented in three categories – industrial, non-industrial and unique. This year's winners are:

**Industrial:** The Method Home Products Factory project in Chicago, Illinois. This project called for new construction of a manufacturing and warehouse facility featuring a 6,000 sq. ft. office mezzanine, solar thermal hot water, photovoltaic solar panels, roof top greenhouse and daylight harvesting. At occupancy, it is only the second manufacturing plant in the U.S. to be certified Platinum LEED. The entire roof was designed as steel joists and joist girders to achieve maximum economy. The light and airy look of open web steel joists allowed natural light in from 40 skylights, while strong enough to support a 2 acre greenhouse on part of the roof. The project included 400 tons of steel joists and Joist Girders, which were manufactured by Gooder-Henrichsen Co. Team members on the project include: KJWW Engineering Consultants (structural engineer), William McDonough & Partners, Heitman Architects (architect), Aetna Engineering (steel fabricator), and Summit Design + Build, LLC (general contractor).

**Non-industrial:** The Gerald Ford International Airport Parking Deck Roof in Grand Rapids, Michigan. Since the original construction in 2011, this airport has never used the top parking



2017 Design Award Winner. Location: Chicago, Illinois. Structural Engineer: KJWW Engineering Consultants, Architect: William McDonough & Partners, Heitman Architects, Steel Joist Manufacturer: Gooder-Henrichsen Co., Steel Fabricator: Aetna Engineering, General Contractor: Summit Design + Build, LLC.

deck during the winter. With the growth of air travel, the airport wanted to cover the top level without entirely closing the sides. For long term protection, along with the structural steel, the final design required all the steel joists and bridging to be galvanized. With over 600 pieces at 62' long, the joists were too long for single dip galvanizing, resulting in each joist being fabricated with a custom matched bolted splice at the center. Steel joists were lighter in weight and more economical than using wide flange beams. Vulcraft/Verco Group manufactured the steel joists. Team members on the project include: Fishbeck, Thompson, Carr & Huber, Inc (structural engineer and architect) and Builders Iron (steel fabricator).

**Unique:** Philip Simmons High School in Charleston, South Carolina. The project covers 214,000 sq.ft. and includes 275 tons of joist and Joist Girders, features 120 deep Joist Girders spanning 118', 100" deep double pitched top chord "gable" joist spanning 60' and KCS joist in addition to sloping parallel chord underslung joist. The use of sloping joist and double pitched top chord joists offered the architect the ability to design high and low roofs that blend with the architecture style of the Charleston area. Canam Steel Corporation served as the steel joist manufacturer. Team members on the project include: ADC Engineering, Inc. (structural engineer), McMillan Pazdan Smith Architecture (architect), and D & T Steel, Inc. (steel fabricator).

Judging of each project was based on flexibility, speed of construction,

value and aesthetic considerations. Eligible projects included new buildings and major retrofit or expansion projects, which were constructed within the last three years and located in the U.S., Canada or Mexico. Additionally, an active member of the Steel Joist Institute must have manufactured the steel joists and/or joist girders.

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$215.00	\$225.00	\$235.00	\$295.00	\$372.00
#1 Bundles	per gross ton	210.00	219.00	234.00	270.00	365.00
Plate and Structural	per gross ton	219.00	209.00	229.00	269.00	301.00
#1 & 2 Mixed Steel	per gross ton	195.00	195.00	212.00	254.00	280.00
Shredder Bundles (tin)	per gross ton	170.00	169.00	165.00	178.00	179.00
Crushed Auto Bodies	per gross ton	170.00	169.00	165.00	178.00	179.00
Steel Turnings	per gross ton	92.00	99.00	100.00	185.00	201.00
#1 Copper	per pound	2.49	2.45	2.69	2.66	2.67
#2 Copper	per pound	2.37	2.32	2.57	2.49	2.52
Aluminum Cans	per pound	.60	.60	.63	.66	.60
Auto Radiators	per pound	1.60	1.59	1.62	1.68	1.72
Aluminum Core Radiators	per pound	.61	.61	.54	.59	.55
Heater Cores	per pound	1.09	1.15	1.19	1.25	1.50
Stainless Steel	per pound	.60	.49	.57	.56	.63

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

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## INDUSTRY PROFILE

## A Closer Look

by Donna Currie

## Sweed Machinery, Inc.

Tyler Casebeer • 800-888-1352

Sweed Machinery got its start in the mid-1950s, founded by a pair of brothers who were in the sawmill business, according to Tyler Casebeer, the company's chief executive officer. The brothers developed a piece of machinery for their own use in milling wood. That machine was so successful it wasn't long before they started selling the machine to other companies.

Soon after they started manufacturing, they developed their first scrap chopper, which, because the wood and plywood industry is so robust in Oregon, was also targeted at the wood industry. That chopper was ideal for chopping the steel banding that was used to bundle wood. The new chopper made the long banding more manageable.

Now, the company has two different industries it manufactures for and sells to. They continue to sell to the wood industry, and they also sell to the recycling industry. "In 1985, we had a scrap chopper on every continent except Antarctica," Casebeer said.

He explained that their choppers are different from others on the market since they are "linear scrap choppers" with a feed mechanism that pulls the material in so it can handle long lengths of material, from lightweight materials like steel or plastic banding, all the way up to heavy underground cable – and everything in between.

"It's not just choppers," Casebeer said, "but recycling systems" including granulators and separating equipment.

He said, "we're all over the map" as far as customer industries, including tube and pipe manufacturers, the wood industry, steel manufacturing companies, wire processors, utility companies, wire manufacturers and the recycling industry.

Casebeer started working for the company in 1995 after he graduated from college with a mechanical engineering degree. But it was also his experience in the plywood industry during college that gave him a leg up for getting hired.

"We're pretty heavy in the wood industry in Oregon," Casebeer explained, and he worked at plywood mills during college. He also had family members in the wood industry, so he was more than familiar with it.

While he worked in the plywood mills, he often used Sweed machines. That was his "in", said Casebeer. Even though that was his way in, he said that "There's a lot more to Sweed than the wood industry," and right now "the majority of our business is the recycling industry."

Casebeer worked his way up from engineer to engineering manager before he left Sweed for a two year stint at another company. He said that time away was beneficial to both him and Sweed because it gave him better perspective and "a broader sense of business," while he still kept close ties with Sweed.

After the two years were up, he returned to Sweed in a management position, and then worked his way up to his present position as chief executive officer.

During his time with Sweed, Casebeer has witnessed the transition from being focused on the wood industry to being a larger player in the scrap industry. The company now manufactures choppers designed to handle everything from wire harnesses to power transmission cables and the machines can handle material that's baled, loose, tangled, or fed off of reels.

One of the reasons the company started focusing more closely on the scrap industry was because of nature, in the guise of the spotted owl. That endangered owl slowed down the wood industry, and Sweed responded by increasing their presence in the recycling industry. Casebeer said that it was "a significant change for Sweed."

There are 7 engineers working for Sweed out of 48 employees in total. "We're an engineering-intense company," Casebeer said, and one of the company's strengths is "being light on our feet to design what our customers need."

Casebeer said that they're fortunate to have a great labor force and the ability to stay in front of changes in the industry and "staying true to what we're good at." Customers must agree, since a large portion of the company's growth is through word-of-mouth referrals.

The basic machinery that Sweed builds is "a foundation that we work from" but they work with the customer's constraints for the rest of the system, whether it's the physical building housing the machinery or the existing equipment it has to function with. But "the foundation is tried and true equipment," Casebeer said.

Looking forward, Casebeer said that he expects wire processing to become more prevalent in the U.S. rather than shipping the wire overseas for processing. Sweed is ready, with complete wire processing systems.

While Casebeer has hung up his engineering hat for the chief executive officer hat, "we're small enough that I'm able to dabble in it," he said. "I'm still right in it, rolling up my sleeves." He works closely with customers and enjoys seeing how they use the products in their own facilities, which he says is an important part of understanding "the realities of what our customers need."

The best part for him is what he called "that aha moment" when a customer that has an issue and Sweed comes up with the perfect solution. "Being able to affect the result for a customer in a positive way – that's what gets me fired up," he said.

## AUTOMOTIVE

## Review of zero emission vehicle regulations required says auto industry

The Ministry of Sustainable Development, the Environment, and the Fight Against Climate Change issued regulations in support of Bill 104 – An Act to increase the number of zero emission motor vehicles in Québec in order to reduce greenhouse gas and other pollutant emissions.

"We respect the right of the Government of Québec to introduce such legislation and we respect and support the ultimate intent of the legislation and accompanying regulations – the reduction of greenhouse gas emissions from light-duty vehicle transportation. However, the members of the Global Automakers of Canada disagree with the premise that Bill 104 will dramatically increase the introduction of zero emission vehicles. Rather, in the face of limited demand for ZEVs in Quebec, Bill 104 will distort the market in ways that may not only harm Quebec consumers and automobile dealers, but also set back the goal of achieving significant carbon emissions reductions in Quebec," said David Adams, president of the Global Automakers of Canada.

"We are very concerned that even with the most flexible supply-side regulations, which these are not, Québec cannot meet its objectives without dramatically accelerating both investment in, and deployment of, new and expanded ZEV-focused charging and refueling infrastruc-

ture," added Adams. "Further, it is absolutely essential that the government maintain competitive incentives for the long term to spur consumer demand."

"It is one thing for the government to have disregarded the advice and recommendations provided by the industry, but it is completely disingenuous to then make the regulations that much more stringent than originally contemplated by the government," said Adams. "Without significant changes being implemented as a result of the public commentary period on the regulations, this piece of legislation risks becoming nothing more than a tax on new vehicles." The members of Global Automakers of Canada will continue to work with the Government of Quebec but we need constructive dialogue which has not happened despite our best efforts. We still possess the desire and conviction to improve the draft regulations and recommend approaches to increase market demand in the province.

Bill 104 attempts to address the supply of zero emission vehicles (battery electric vehicles, plug-in hybrid electric vehicles, and fuel cell electric vehicles). The automotive industry has always responded to consumer demand for vehicles of any type and currently the demand for zero emission vehicles in Quebec – while growing – still represents just one percent of vehicle sales in Quebec.

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## AUTOMOTIVE

# Strong CO2 emission reductions part of Honda's Green Dealer Program

Building on its commitment to minimize the environmental impact of its products in every phase of their life cycle, Honda launched the next phase of its Environmental Leadership Program, or Green Dealer Program, to provide independently owned U.S. Honda and Acura dealers with new tools to evaluate and measurably reduce energy and water use, saving money while enhancing their environmentally-responsible business operations.

The program, launched in 2012, offers a refreshed website with cumulative CO2 reduction data, an updated Green Dealer Guide, and new benchmark metrics for evaluation, in addition to existing support for data collection, environmental assessment, expert advice, implementation and results verification.

"On an annual basis, the Honda Green Dealer Program is helping to reduce dealership CO2 emissions by approximately 19,000 metric tons. That's equivalent to 2,800 homes worth of electricity use each year," said Steve Center, vice president, Connected and Environmental Business Development for American Honda Motor Co., Inc. "As our dealers have demonstrated, reducing energy and

water use are achievable goals that can save money, address climate change and inspire others to make a difference for the future of our planet."

The program awards participating dealers at three levels of achievement based on an independent evaluation of dealership performance in the areas of energy and water efficiency, waste reduction, site attributes, and other sustainable best practices.

More than 150 Honda dealers across all product lines, including automobile, powersports and power equipment, have received the Honda Environmental Leadership Award, earning Silver, Gold or top-level Platinum designations. These dealers have collectively reduced CO2 emissions by more than 34,000 metric tons.

Three Platinum Award recipients, Brandfon Honda in Branford, Connecticut, Eastern Equipment in Derry, New Hampshire and Rossi Honda in Vineland, New Jersey have also earned the distinction of being electric grid neutral.

These dealers produce as much or more energy from renewable energy sources than they consume from their local electric utilities over a one-year measurement period.

A major component of the program, and a key to its success, is the Green Dealer Guide. This resource provides step-by-step guidance to implement systems and technologies that help dealers achieve their carbon and water reduction goals. The new version of the guide features updates in the areas of energy, water and site, including:

- Track waste and recycling in ENERGY STAR Portfolio Manager
- Innovative approaches to reduce environmental impact
- Greenhouse gas emission and energy reduction calculation methodologies
- Higher energy efficiency standards for lighting and heating and cooling systems
- Emphasis on water use reductions through efficient water fixtures, use of recycled water, and other conservation measures
- Construction waste diversion for new builds

In preparation for the next stage of the Green Dealer program, Honda collaborated with AutoNation, which has hundreds of dealerships across multiple brands nationwide.

# Autonomous vehicle legislation passes House

The U.S. House of Representatives passed legislation on September 6 to advance the introduction of autonomous vehicles on the nation's roads.

Autonomous vehicles are the next defining chapter for the automotive industry. Recognizing the transformational nature of autonomous vehicle technology, the House legislation seeks to balance innovation and safeguards.

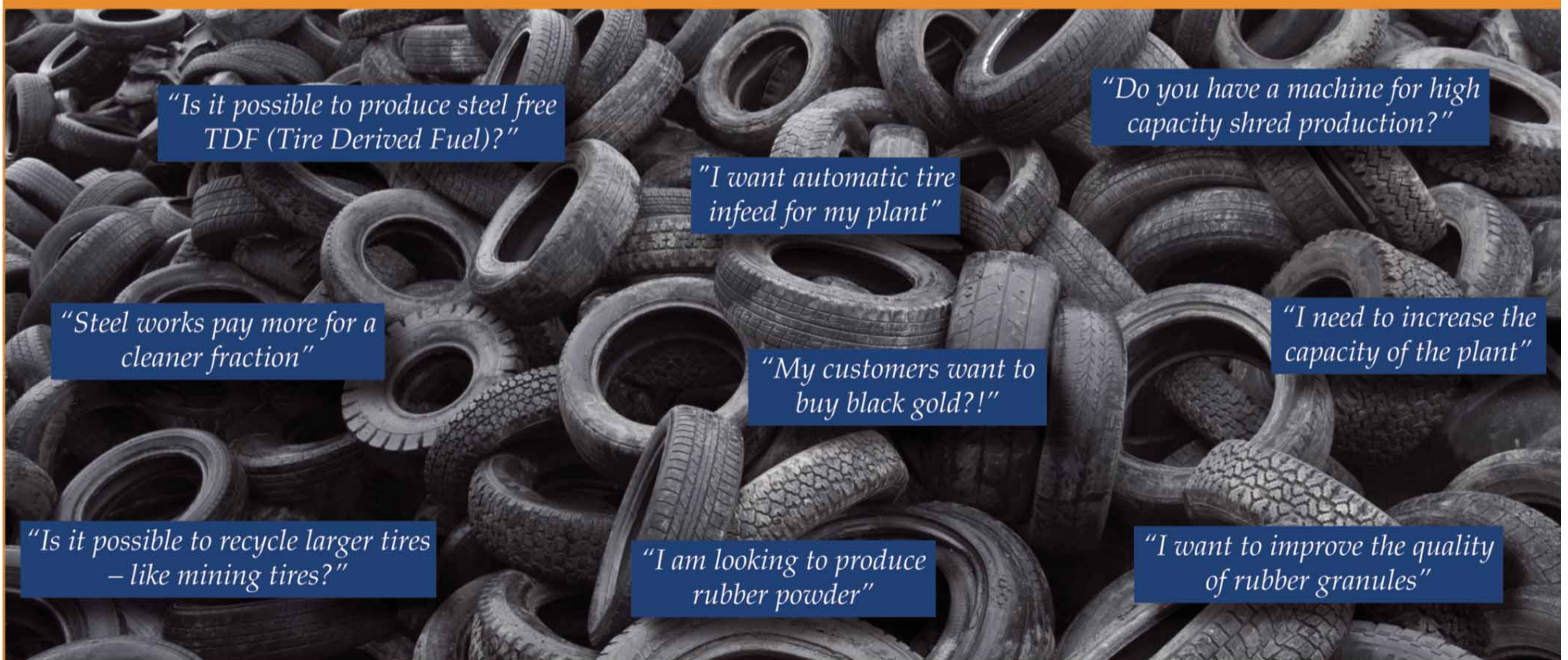
The House bill, HR 3388, will permit an increase in the number of autonomous vehicles that may be deployed and prohibits states from enacting rules that conflict with federal standards.

Meanwhile, Senate Commerce, Science, & Transportation Chairman John Thune (R-SD), along with ranking minority member Bill Nelson (D-FL) and Sen. Gary Peters (D-MI), are drafting the Senate's proposal for regulating autonomous vehicles. In June, the trio circulated a set of guiding principles with an emphasis on safety, innovation and the differing roles of state and federal government.

The U. S. Tire Manufacturers Association USTMA will continue to monitor legislative efforts to regulate autonomous vehicles for potential effects on tire manufacturers.

*I'm not saying I'm Batman, but so far nobody has seen me and Batman together in the same room.*

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# NRC supports recycling Harvey debris, opposes open burning

The National Recycling Coalition (NRC) expressed deep sympathy and respect for the victims of Hurricane Harvey, and called for government officials to employ the most environmentally and ethically responsible disposal of the storm debris materials, especially recycling and reuse.

"The NRC recognizes the crisis for the residents and businesses is, as it should be, everyone's focus of the initial recovery efforts. However, as we've learned from Katrina and Superstorm Sandy, the next stages must involve a restoration of the infrastructure, which by necessity includes appropriately dealing with the millions of tons of debris. There is an opportunity to recover some of the material if proper steps are taken in the recovery process," says Bob Gedert, NRC president.

Among the possibilities for recycling are huge piles of vegetative debris, as well as concrete and metal. There is a recycling infrastructure in place to han-

dle that process. But the NRC strongly opposes the use of open air burning to dispose of debris, as has been done with previous disasters. That method released millions of pounds of toxins into the air, which has long-term deleterious health impacts on the already affected populace.

NRC has established a Hurricane Harvey Task Force to engage in assistance with flood related materials management. NRC will be working with various partners including the State of Texas Alliance for Recycling (STAR), Environmental Protection Agency (EPA), Cooperative Teamwork and Recycling Assistance (CTRA), Texas Commission on Environmental Quality (TCEQ), NRC trade association member Construction and Demolition Recycling Association (CDRA) and numerous others on effective, environmentally, and ethically sound recovery of hurricane debris.

# Casella shows increased revenues in first half of 2017

Casella Waste Systems, Inc., a regional solid waste, recycling and resource management services company, reported its financial results for the six month period ended June 30, 2017. In addition, the company expects its revenue, Adjusted EBITDA, and normalized free cash flow results to be towards the upper-end of its previously announced guidance ranges for the fiscal year ending December 31, 2017.

Highlights for the six months ended June 30, 2017:

- Revenues were \$287.8 million year-to-date, up \$17.7 million, or 6.6 percent, from the same period in 2016.

- Net loss was \$(53.9) million year-to-date, an increase in net loss of \$(51.5) million, as compared to a net loss of \$(2.4) million for the same period in 2016.

- Adjusted net income (loss) attributable to common stockholders was \$11.0 million year-to-date, as compared to \$(1.9) million for the same period in 2016.

- Adjusted EBITDA was \$59.2 million year-to-date, up \$5.2 million, or 9.6 percent, from the same period in 2016.

- Operating loss was \$(40.7) million year-to-date, as compared to operating income of \$17.6 million for the same period in 2016.

- Adjusted operating income was \$23.4 million year-to-date, up \$5.8 mil-

lion, or 33.2 percent, from the same period in 2016.

- Net cash provided by operating activities was \$40.0 million year-to-date, up \$4.4 million from the same period in 2016.

- Normalized free cash flow was \$13.4 million year-to-date, up \$3.7 million from the same period in 2016.

For the six months ended June 30, 2017, revenues were \$287.8 million, up \$17.7 million, or 6.6 percent, from the same period in 2016, mainly driven by robust collection, disposal and recycling pricing; higher collection, commodity, and customer solutions volumes; and the acquisition of two hauling companies, partially offset by lower disposal and organics volumes.

Net loss attributable to common stockholders was \$(53.9) million, or \$(1.29) per diluted common share year-to-date, as compared to \$(2.4) million, or \$(0.06) per diluted common share for the same period in 2016. Adjusted Net Income Attributable to common stockholders was \$11.0 million year-to-date, or an adjusted diluted earnings per common share of \$0.26 year-to-date, as compared to adjusted net loss attributable to common stockholders of \$(1.9) million, or an adjusted diluted earnings per common share of \$(0.05) for the same period in 2016.



*As a scarecrow, people say I'm outstanding in my field. But hay, it's in my jeans!*



## BUSINESS BRIEFS

### MODRoto names regional sales manager

■ Recycling cart manufacturer MOD-Roto, Madison, Indiana, has named Anthony Joyner regional sales manager. Covering the mid-South territory of Texas, Oklahoma, Arkansas and New Mexico, Joyner offers material handling products and logistics support services for scrap processors, municipalities, construction and demolition firms, and other recycling companies. Joyner joins a growing sales team that also provides a high level of customer service including on-site guidance and support at customer facilities throughout North America.

A veteran of the U.S. Army now serving the U.S. Army Reserve, Joyner brings a long list of achievements in logistics, planning and implementation to the company, along with a record of success with increasing levels of responsibility.

Joyner earned a Bachelor of Science degree in Biology from Delaware State University, Dover, Delaware, and a Master of Science in Environmental Management from Webster University, St. Louis, Missouri. He resides in Austin, Texas.

### City of Columbus removes glass from recycling list

■ Columbus, Ohio city officials voted unanimously to extend their recycling program for another year but removed glass from the contract to save money.

Removing glass from the program saved the city \$6,000. The city will pay Shred Monster \$60,000 to continue accepting paper, cardboard, plastic, cans and newspaper through September 2018.

### Lakeshore acquires Area Restroom Solutions

■ Lakeshore Recycling Systems (LRS), an independent recycling and waste diversion services provider, has acquired Area Restroom Solutions (ARS), a leading Chicago area portable restroom rental company. The acquisition boosts LRS' temporary services line of business by 20 percent, offering customers immediate access to portable restroom services used most frequently at construction sites, park districts and outdoor events.

LRS first entered the portable restroom market with the January 2017 acquisition of West Chicago based K. Hoving Companies. As a result of the ARS acquisition, LRS has grown its inventory of portable restrooms by 20 percent to over 5,000 units, and is now the second largest portable restroom provider in Illinois.

Family owned and operated since its inception, Aurora based Area Restroom Solutions has created a strong reputation for maintaining high standards of reliability and cleanliness across its fleet of portable toilets and restrooms throughout the Chicagoland area.

### Anderson Equipment expands territory

■ Anderson Equipment Co., Bandit Industries' authorized dealer, is expanding its territory into New York and Pennsylvania. With this expansion, they will serve customers in five states: Maine, New Hampshire, Vermont, New York and Pennsylvania.

### Republic Services acquires ReCommunity Holdings

■ Republic Services, Inc. has entered into a definitive agreement to acquire ReCommunity Holdings II, Inc., the largest independent recycling/processing company in the U.S. ReCommunity's assets and expertise will complement Republic's existing recycling collection and processing operations.

The acquisition involves 26 recycling centers in 14 states, primarily in locations where Republic maintains a leading market presence. Combined, these facilities recover approximately 1.6 million tons of recycled commodities annually. The transaction also includes the assumption of multiple long-term municipal agreements with processing fee-based structures, which aligns with Republic's innovative recycling pricing model.

"We believe this transaction will enable us to meet growing customer demand for recycling services, while achieving one of our key sustainability goals," said Don Slager, president and chief executive officer of Republic Services. "Recycling continues to be one of the fastest growing segments of the waste stream, and our focus remains on investing in traditional recycling in select and prioritized markets where customers have demonstrated both a demand and a willingness to pay for recycling."

As part of its Blue Planet™ sustainability platform, Republic has a goal of adding an additional 150,000 tons or more per year of recycling capacity by 2018.

### Nucor adds General Lloyd J. Austin III to board

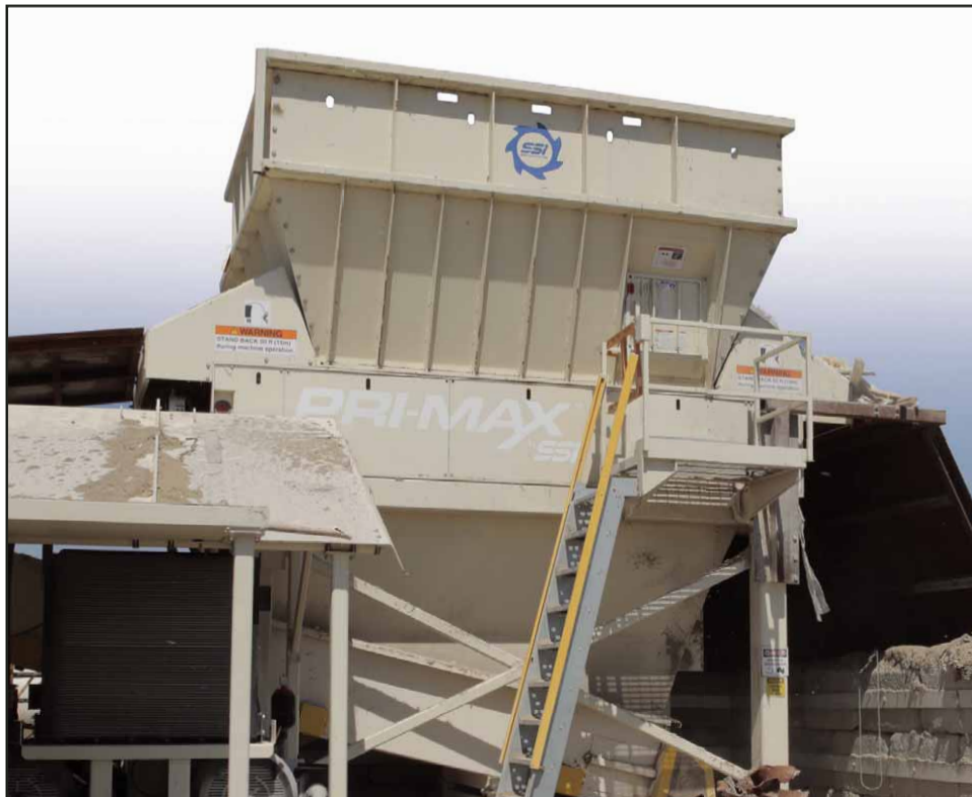
■ Nucor Corporation announced that its board of directors has elected retired U.S. Army General Lloyd J. Austin III as a director effective September 18, 2017.

General Austin, retired as a 4-star general in 2016 after nearly 41 years with the U.S. Army. From March 2013 through March 2016, General Austin served as the commander of U.S. Central Command responsible for military strategy and joint operations throughout the 20-country Central Region that includes Iraq, Syria, Iran, Afghanistan, Pakistan, Yemen, Egypt and Saudi Arabia. Prior to that he served as the 33rd vice chief of staff of the Army from January 2012 to March 2013 and as the combined forces commander in Iraq from September 2010 through the completion of Operation New Dawn in December 2011.

Over his military career, General Austin was awarded the Silver Star, five Defense Distinguished Service Medals, the Legion of Merit and the Distinguished Graduate Award from the United States Military Academy at West Point, among others.

### Covanta declares regular quarterly cash dividend

■ Covanta Holding Corporation announced that the board of directors has declared a quarterly cash dividend of \$0.25 per share, payable on October 6, 2017 to stockholders of record as of the close of business on September 28, 2017.



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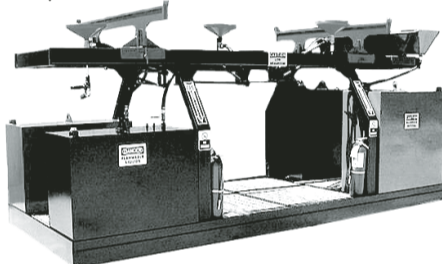
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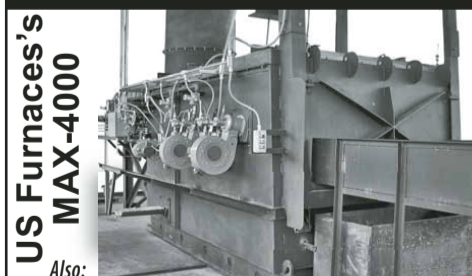
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The standard three-pocket disc produces chips from 5/8 to 1.25" long, while the optional four-pocket disc produces chips from .5 to 1" long.

## BUSINESS BRIEFS

### Hoistlift of Florida joins Bandit as dealer in Florida

■ Bandit Industries continues its expansion of dealers across the U.S. with the addition of Hoistlift of Florida, based in Fort Myers. The company is known throughout south-central Florida for their unrelenting commitment to their customers.

Hoistlift of Florida will offer sales, parts and service for all Bandit hand fed chippers and stump grinders, including Bandit's new 12XPC and 15XPC utility chippers, and the Model ZT1844, a compact and powerful track stump grinder. This is in addition to their heavy duty material handling, construction and agricultural equipment.

### Industrial Magnetics acquires Javelin Mfg.

■ Industrial Magnetics, Inc. (IMI) has acquired Javelin Manufacturing of Fort Wayne, Indiana.

Javelin Manufacturing specializes in eddy current separators and engineered systems found in the scrap, recycling, waste, mining and related industries.

Javelin's experienced and dedicated staff will remain intact to serve and support the company's rapid growth, and the Fort Wayne location will continue to operate as the primary engineering and design center for the brand. Capital investments to bolster the current testing platform, modernize assembly capabilities and create a toll processing cell are all slated for later this year.

### Bunting Magnetics names Voorhees product manager

■ Bunting Magnetics Co., a leader in moving, removing and holding metal, has appointed Barry Voorhees as its product manager over metal detection. Voorhees will manage the growth and profitability of the company's line of metal detection products by supporting the company's sales team, identifying new markets and customers, improving the product and enhancing the accompanying service and warranty programs.

Based in Newton, Kansas, Voorhees draws on over 20 years of experience in Bunting Magnetics Co. in a variety of positions. Most recently, he was general manager, where he managed the entire Newton based operations team, including the inside sales group, design and engineering personnel and all manufacturing.

*Did you hear about the mathematician who hates negative numbers? He'll stop at nothing to avoid them.*

### AEM names new senior vice president

■ The Association of Equipment Manufacturers (AEM) has named Curt Blades as senior vice president, AG Services.

Blades will be responsible for strategic direction of agriculture programs and services for the AEM membership, and will serve as primary liaison with ag-specific industry organizations, customer groups and government agencies, both in North America and worldwide.

He replaces Charlie O'Brien, who announced his retirement from AEM earlier this year.

Blades served as group business development director for Meredith Corporation and as a member of the strategic leadership team for Meredith Agrimedia business unit. In addition to strategy, he has extensive experience in management, marketing, sales and research.

He joined Meredith in 2002, with previous positions including management roles at MachineryLink and Farm-land Industries.

He has been active in the National Agri-Marketing Association, Agribusiness Education Foundation and Agriculture Council of America.

O'Brien announced in April his intention to retire from AEM to take care of family and a family business.

He joined AEM in 2007 and prior to that held positions of increasing responsibility with John Deere Credit.

### ALLU accepts settlement in patent infringement suit

■ ALLU Finland Oy Ltd. settled a patent infringement lawsuit in the U.S. District Court against Rock Tools Equipment, LLC, and Rock Tools Attachments, LLC, of Greenwood Village, Colorado. The suit concerned technology relating to ALLU's screening, crushing, or mixing buckets.

ALLU filed the lawsuit on March 24, 2017, in the U.S. District Court for the District of New Jersey. The patents at issue are U.S. Patents No. 7,954,263 and 8,122,620, owned by ALLU Finland. In the two companies' settlement, Rock Tools admits that its Model RTB20 infringes upon these patents. The company will permanently cease and desist in designing, manufacturing, or marketing any screening and crushing buckets that infringe upon ALLU Finland patents. The company also will remove descriptions and images of the disputed products from its website and social media pages.

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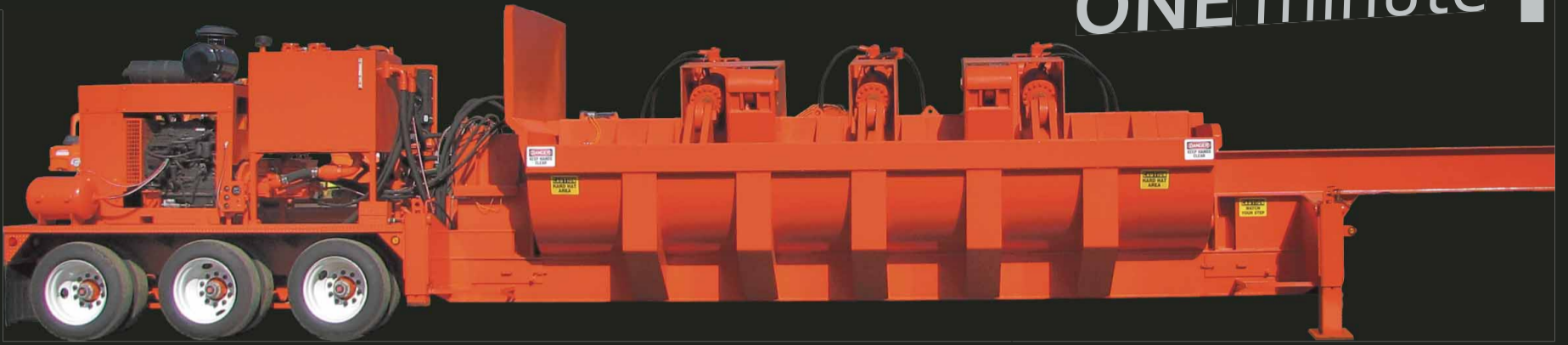
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## New Jersey becomes the latest to pass unsafe used tire law

by MAURA KELLER

mkeller@americanrecycler.com

As the resale and installation of unsafe tires is gaining momentum throughout the U.S., more and more state governors are signing legislation prohibiting the sale of unsafe used tires to motorists. This growing trend will have a significant impact on the end-of-life tire recycling initiatives within the industry.

In August, Governor Chris Christie signed legislation advocated by the U.S. Tire Manufacturers Association (USTMA) to prohibit the sale of unsafe used tires that pose a risk to New Jersey motorists. The new law imposes a fine on a business that sells tires that exhibit any one of several unsafe conditions such as worn out tread, visible damage or improper repairs. In addition to USTMA, the national trade association for tire manufacturers, the Tire Industry Association and the New Jersey Gas Station-C-Store-Automotive Association (NJGCA) supported the legislation.

The U.S. Tire Manufacturers Association (USTMA) firmly believes businesses should not be permitted to install tires that are worn out, damaged or exhibit other unsafe conditions. USTMA research shows that more than 30 million used tires are available for sale nationally each year. The legislation does not ban all used tire sales. It targets used tires that have specific, well-established, unsafe conditions.

And this legislation appears to have merit. The National Highway Traffic Safety Administration (NHTSA) says that worn out tires are three times more likely to be involved in a crash than tires with sufficient tread depth. NHTSA crash statistics indicate that about 200 fatalities and 6,000 injuries are attributed to tire-related causes annually.

"In Colorado and New Jersey, we successfully advocated for legislation to reduce the availability of unsafe used

tires," said Anne Forristall Luke, U.S. Tire Manufacturers Association (USTMA) president and chief executive officer. "We are now working to support similar efforts in several other states to protect drivers from this safety hazard."

While Colorado and New Jersey are the most recent states to embrace this legislation, in June, Texas governor Greg Abbott vetoed a used tire bill that passed the state legislature in May, stating, "Texas does not need to impose new criminal penalties on people who put tires on cars. Nobody wants bad tires on the road, but creating a new crime is not the answer to every problem."

Texas House Bill 2774, which had won support from both the state House and Senate with overwhelming majorities, was based on the draft legislation long advocated by the USTMA. It would have levied fines for each sale for road use of a used tire defined by the statute as unsafe including a tread depth of less than 1/16 inch; a localized bald spot that exposes the tire ply or cord; regrooving below the original groove depth; evidence of a temporary repair; bumps, bulges or knots indicating tread separation; or worn tread indicators that contact the road in any two adjacent major grooves in the center of the tire.

Also in June, proposed legislation in Ohio, which is supported by the Rubber Manufacturers Association, is designed to stop the installation of unsafe used tires. It was introduced in the Ohio House and Senate prior to the summer recess.

Specifically, the House Economic Development, Commerce and Labor Committee approved HB 42 on May 9 by a vote of 11-4. The bill, which prohibits the installation of unsafe used tires that are worn out, damaged or improperly repaired, is now eligible for a vote by the full House. The proposed legislation states that anyone who vio-



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lates the law will be guilty of a minor misdemeanor and face a fine of no more than \$1,000. A Senate companion bill, SB 68, is awaiting a final hearing in the Senate Local Government, Public Safety and Veterans Affairs Committee. The Ohio Manufacturers Association plans to work with tire manufacturers to support passage of HB 574 and SB 68 when the House and Senate return this fall.

As more states evaluate and consider legislation prohibiting the sale of

unsafe tires, what does that mean for the tire recycling industry?

As Luke explained, safety is the tire manufacturing industry's top priority. The USTMA advocates for legislation to restrict the availability of used tires that pose a safety risk when in service. Unsafe conditions include tires that are worn-out, have visible damage or improper repairs.

"All tires eventually are removed from service," Luke said. "USTMA's

See TIRE LAW, Page B6

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# Michelin deploys Rubberway, an application that charts CSR practices

The world's largest purchaser of natural rubber, the Michelin Group is committed to responsibly and sustainably managing the rubber production industry. In order to preserve this resource and to manage its social and environmental impact, Michelin has chosen to promote rubber farming while also respecting certain rules throughout the value chain. Established in 2016 with the assistance of NGOs specialized in protecting the environment and human rights, the recommended measures are based on five fundamental areas: respect for people, protection of the environment, improved farming techniques, proper use of natural resources and good governance practices.

To assess respect for these rules, which must take into account the entire industry's practices, Michelin has designed Rubberway, an application developed in cooperation with SMAG information systems. By collecting data from smallholders, large farms, interme-

diaries and raw material processing plants, Michelin is taking action transparently while also promoting the use of best practices worldwide.

The digital revolution is an opportunity that benefits all segments of the industry, including the raw material supply chain. Rubberway is a tangible expression of this revolution. Innovative and useful, this mobile application collects and analyzes data according to established criteria and maps areas of high social and environmental risks.

Natural rubber is a sustainable raw material that is essential to tire production. Out of the 30 million people that earn a living from the rubber industry around the world, six million work on farms, 85 percent of which are smaller than four hectares and belong to small landowners. Mapping Michelin's natural rubber supply chain is a sizable project but this ambitious approach, which is part of a long-term process, will transform the face of the industry.

# MCS production facility running and now accepting tires

Newly designed facility in Maryville will hire more than 15 employees in the coming months

Maryville Carbon Solutions (MCS), a Maryville-based facility owned by Bolder Industries (formerly Waste to Energy Partners) and producer of Bolder Black™ plans to process a minimum of 1 million waste tires, resulting in 7 million pounds of recycled Bolder Black, 1.2 million gallons of reclaimed oil and 1,600 tons of recycled steel.

To achieve these ambitious goals, MCS will hire 15 to 20 employees including a plant manager, quality control technician, pyro engineer, finishing operator as well as other mechanics, technicians, and engineers. Providing secure jobs with benefits and a healthy, team-oriented work environment are paramount goals for the company.

The award winning Bolder Black is a sustainable and environmentally friendly alternative to carbon black, an oil derived component used in nearly all rubber and black plastic products. Made from end-of-life tires, Bolder Black converts solid waste from traditional disposal methods and diverts significant amounts of waste from overtaxed landfills. This is all done through a low emission, thermal decomposition process that is less tax-

ing on the environment than traditional production methods, making it a highly sustainable operation and product.

The facility is now accepting all types of tires (agricultural, semi, passenger, etc.) and will charge a nominal fee for individual tires and offers a bulk rate for loads of more than 15 tires. They will accept tires by appointment only.

Before being purchased by Bolder Industries, the MCS facility was owned by CMC and served primarily as a research & development facility. Since taking over operations in 2014, Bolder Industries has invested more than \$10 million to rebuild the plant and has brought in a highly seasoned management team to implement rigorous manufacturing standards that meet regulatory requirements and create an entirely new product from new processes — one that they expect to bring dozens of new jobs to Maryville in the years to come.

For a direct link to guidance on managing scrap tires in Missouri, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).



# Georgia county cleans up scrap tires

Colquitt County, Georgia was approved for a grant from the Environmental Protection Agency (EPA) to help dispose of scrap tires.

In a two day period, more than 8,000 tires were brought into the town's recycling facility.

"It's a way to keep the county roads and city roads a little better, in

terms of keeping them neat, clean and free of old scrap tires," county administrator Chas Cannon explained. "It'll also help folks turn in tires they've held onto for years."

The county plans to reapply for the grant within the next several months for additional tire recycling.

# A&R EQUIPMENT SPOTLIGHT

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

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

## UPCOMING TOPICS

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

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## Tire manufacturers promote scrap tire markets

John Sheerin, USTMA's director of End of Life Tire Programs, was a featured speaker at the Recycled Rubber Products Technology Conference.

Sheerin's presentation on the status of U.S. scrap tire markets and market development activities framed subsequent discussion at the conference. USTMA's biennial scrap tire reports are the most thorough analysis of U.S. scrap tire activity. The next report will be issued in 2018.

USTMA's participation in the conference is part of ongoing efforts to help grow scrap tire markets through education, networking and collaboration, as well as to reduce the barriers that inhibit beneficial reuse of scrap tires.

U.S. scrap tire markets have increased dramatically and now consume nearly 90 percent of annually generated scrap tires. In 1990, end use markets consumed only 11 percent of scrap tires. At the same time, stockpiles of scrap tires dropped from over 1 billion to about 67 million as states adopted legislation and programs to address scrap tires. USTMA's advocacy of a free market shared responsibility scrap tire management system, and working closely with states and other partners, helped scrap tires to become one of the most beneficially reused consumer products on the market today.

USTMA's own Scrap to Profit scrap tire recycling conference will be October 25 & 26 in Nashville.

## California scrap tire bill advances

California legislation intended to boost the tire recycling rate is advancing with USTMA support. AB 509, sponsored by Assembly Member Jim Frazier, would change the current state tire recycling grant program into an incentive program to help expand the use of tire-derived material.

The measure also includes a provision to give Cal Recycle, the state scrap tire regulatory agency, authority to impose an additional tire fee on tire dealers to cover program administrative costs.

USTMA successfully sought changes to the measure. One change would force Cal Recycle to spend a

substantial portion of the current \$70 million surplus in the Waste Tire Fund before imposing a new fee. Another would require the agency to thoroughly document and report how the incentive program is improving tire recycling rates. Finally, USTMA and Assembly Member Frazier worked together to increase the amount of state funding from Cal Recycle for rubber modified asphalt projects.

AB 509 passed the state Assembly in May and is currently before the Senate Appropriations Committee. The California Legislature adjourned in early September.

## Goodyear launches "intelligent" tire trial

The Goodyear Tire & Rubber Company is now applying its expertise to a fleet of semi-autonomous electric cars.

Goodyear announced that it is equipping Tesloop, a city-to-city mobility service that exclusively uses Tesla electric vehicles, with wireless sensors in its tires to improve overall tire management and maximize uptime for its growing fleet.

"We want to build the future, not just observe or read about it," said Chris Helsel, Goodyear's chief technology officer. "As the new mobility ecosystem continues to take shape, we are taking steps to match the pace of technical change in the transportation industry and develop tire innovations that meet the intelligence of the vehicles riding on them."

The wireless sensors continuously measure and record tire temperature and pressure, which is paired with other vehicle data and connected to Goodyear's cloud-based proprietary algorithms to enhance overall fleet operations and predict when the tires need service or replacement.

As part of the program with Tesloop, Goodyear is also extending its mobile fleet solutions to passenger vehicles, providing tire maintenance and repair while Tesloop vehicles are at charging stations, during regularly planned downtime.

"When you are operating cars nearly 24/7/365, minimizing tire inci-

dents is critical to the customer experience and the business model," said Rahul Sonnad, Tesloop's chief executive officer. "The possibilities for data-driven tire diagnostics are remarkable and promise to help a business like Tesloop operate more efficiently and make our vehicles the safest on the road."

Tesloop operates a fleet of Teslas that average up to 17,000 miles per vehicle, per month. Its highest-mileage vehicle, a Tesla Model S in operation since 2015, recently exceeded 300,000 service miles. Goodyear has been working with Tesloop since January 2017 to study the effect of autonomous technologies on tires.

Goodyear's effort with Tesloop builds on its successful commercialization of Goodyear Proactive Solutions for truck fleets, using advanced telematics and predictive analytics technology to allow fleet operators to optimize fuel efficiency and precisely identify and resolve tire-related issues before they happen.

In addition to its fleet management offerings, Goodyear is also working with automakers to provide tire information to vehicle control systems to enhance safety and performance. Helsel added, "Goodyear is breaking new ground with the combination of fleet management expertise, intelligent products, and a vast service network to deliver complete solutions for the future of mobility."

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# EQUIPMENT SPOTLIGHT

## Crushed Car Haulers



Benlee



Brother's Equipment Inc.



Demco/Maurer

by MARY M. COX

maryc@americanrecycler.com

As long as there are crushed and discarded automobiles, there will likely be a need to move them from one location to another. There are a few different vehicles that can help in that regard and Benlee is just one of the companies that offer some solutions.

"In an always competitive and ever expanding vehicle recycling industry, Benlee has developed a full line of crushed car haulers to serve our customer's needs. Ranging from 48' to 53' in an 8", 16" or double drop configuration with either a Mountain Tarp 'Sliding Tarp' Enclosure System or a Cramaro Gate system, we can supply a unit that will allow our customers to have a cost effective and reliable solution for moving crushed cars," Greg Brown, owner said. Standard features include a fluid containment system as well as reinforced side walls for reliability. Available options include air ride as well as an auto inflate system.

"For almost 40 years, Benlee has been one of the top names in the industry and manufactures the best roll off, crushed car, open top gondola trailers and roll off trucks," Brown claimed. "Our 32,000 sq.ft., 12 acre facility sits in the heart of manufacturing America in Romulus, Michigan, near Detroit. Quality is a hallmark at Benlee and we boast five service bays, two frame straightening bays, a spare parts business and even a rental operation. Our in-house manufacturing brings together a highly experienced crew of experts that design, service, sell and support the best roll off containers, roll off dumpsters, roll off dump trailers and trucks, as well as crushed car units and other specialty vehicles," he added.

Brother's Equipment builds crushed car haulers ranging from 40' to 53', single drop trailer frames and double drop trailer frames. Lee Jurek, sales manager explained, "The weight law of the state and how much you can legally haul determines the size of the trailer you may need." The firm's Ace product line has been in production for over 79 years and includes many kinds of custom built crushed car trailers, Jurek said.

He noted that safety is of paramount importance with these products, for the operator and others as the load travels down the road.

For example, it is often necessary for the operator to climb onto the trailer to secure the load. Based on the weather conditions, this can be dangerous.

To combat this, in all areas where the operator may stand on the trailer, Brother's Equipment trailers include a grated step

material surface and handrails for added support. For securing trailer contents, the firm offers many different options such as cable, chain binders, curtains, plastic mesh, hydraulic door, and solid sidewall with forklift cutouts.

"Most customers like to have a trailer built specifically for them, as state requirements and each application require us to meet and exceed the needs of our customers. There are several designs for our crushed car haulers: a three-sided with curtain, dual curtain sides and hydraulic clam shell style. All types are designed for safety and ease of operation for the drive," said Jurek.

He stated, "Each state has different bridge laws, but customer needs and applications vary. All of our standard trailers meet federal bridge requirements but each state or customer application may require a specific design. In the end, we realize that the goal is for the trailers to carry as many crushed vehicles as possible. We've noticed that companies are sometimes sold a bill of goods, based on old technology. So, it is advantageous for the buyer to do the homework and see what's best for the application involved. In the end, the trailer will last far longer."

Rick Schoenfelder is sales manager at Demco/Maurer. He said, "The Demco/Maurer Gondola is the industry standard for durability and cost efficiency in the scrap industry. We offer models in both mild and Hardox steel, ranging in size from 40 to 48 feet with wall heights of 4 to 8 feet. Our models also offer a 45 to 113 yard capacity and I am confident we have a gondola to suit you. The Hardox body offers our customers more durability over years of hard service than standard hard steel. You get what you pay for and it pays you back. Working with members of the trade and the ISRI Convention, we have worked to develop products that fit the needs of the scrap and recycling industries."

See CRUSHED CAR HAULERS, Page B6

### MANUFACTURER LIST

**Benlee**  
**Jeff Diederich**  
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 www.benlee.com

**Brother's Equipment Inc.**  
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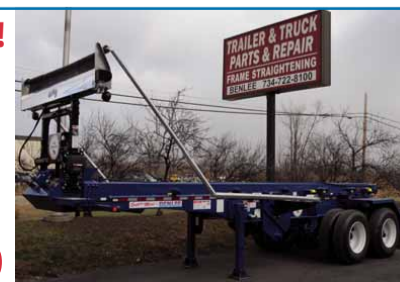
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# Soybean oil-based rubber used in tire production

The Goodyear Tire & Rubber Company is harvesting some unique “seeds” of innovation as it introduces a new tire technology with support from the United Soybean Board (USB).

The first commercial use of a new soybean oil-based rubber compound is helping Goodyear enhance tire performance in dry, wet and winter conditions. A Goodyear team of scientists and engineers created a tread compound, or formulation, using soybean oil, which is naturally derived, cost-effective, carbon-neutral and renewable.

By employing soybean oil in tires, Goodyear found a new way to help keep the rubber compound pliable in changing temperatures, a key performance achievement in maintaining and enhancing the vehicle’s grip on the road surface.

Goodyear’s tests have shown rubber made with soybean oil mixes more eas-

ily in the silica-reinforced compounds used in manufacturing certain tires. This also improves manufacturing efficiency and reduces energy consumption.

Goodyear cooperated on the project with the USB, a group of farmer-directors who oversee the investments of a check-off program on behalf of all U.S. soybean farmers. The USB provided some funding support for the development of Goodyear’s soybean oil application in tires.

The commercialization of soybean oil in tires as the latest technology breakthrough by Goodyear builds on the company’s other recent innovations, such as the use of silica derived from rice husk ash, another component Goodyear is using in certain consumer tires, along with current and past uses of components such as carbon fiber, DuPont™ Kevlar®, volcanic sand and more.

## Liberty Tire appoints Womble as CEO

Liberty Tire Recycling appointed Thomas Womble, a company veteran, to serve as chief executive officer. Womble has been with Liberty Tire since 2001 and previously served as Liberty Tire’s chief operating officer, overseeing day-to-day operations for 28 manufacturing sites in eight regions throughout the U.S. and Canada. In his new role as chief executive officer, Womble will lead the company’s next phase of growth.

“Womble is a veteran Liberty Tire Recycling executive and highly-experi-

enced waste services professional. He understands the complexities of our business and the value proposition we bring to the marketplace – to remove millions of scrap tires from the waste stream, recycle them and transform them into sustainable products that provide smart solutions for communities and organizations of all kinds,” said Nils Larsen, chairman of the board of directors for Liberty Tire Recycling.

Womble succeeds Scott Whitney, who joined Liberty’s board in June 2015.

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# SALVAGING Millions

by Ron Sturgeon  
Autosalvageconsultant.com

## Tools for Success – What should you do when your best salesperson's numbers drop by 50 percent?

The first article in this series listed more than 25 tactics to increase your business success, all of them based on my experience.

Although distractions can affect anyone in a business – from owners to managers to the custodian – this article is primarily about salespeople. Have you ever had a salesperson who consistently delivers high numbers, a top performer, whose sales numbers suddenly plummet?

The cause of the drop can be a real mystery, especially when the person shows up every day, does what he or she has always done, and puts out the same number of quotes. As owners and managers, we usually measure the activity of a salesperson as a predictor of sales. For instance, a salesperson who does an above-average number of quotes is likely to get a strong flow of orders before long. With newly hired salespeople, we know that if they don't quote enough business, they can't make their numbers at the end of the month. Other metrics like calls in or out and average call length can also help you to find the cause of poor performance.

In my career, I have had super salespeople experience sudden drops. On consulting assignments, I have also helped diagnose issues on sales teams. In one of my businesses, I had a top performer's sales drop 50 percent. When I spoke to him, he blamed it on the economy, on the weather, on price increases and anything else he could think of. He was angry and offended that I had confronted him about his falling numbers. I think he believed the excuses he was giving me.

After three months of dreadful sales, his peers found out he was getting a divorce. While his home life was imploding, he was showing up and working, making the calls and doing the quotes. He sounded like the same talented salesperson on the phone. I am sure that he thought he was not allowing his home life to affect his work. Nevertheless, it was. He was much less effective. Not surprisingly, his sales jumped back up when he found a new girlfriend.

In consulting assignments, I have seen similar distractions – ranging

from the health of loved ones to the stress of building and financing a new home – affect the performance of strong members of a client's team. In every case, the employees tried their best to "leave it at the door," and did not see the way that the extra worry at home was affecting their performance at work.

What to do in these situations is not always easy to determine. You have to recognize the reality and determine whether the distraction will affect the employee's performance temporarily or permanently. It is best if the employee can recognize the distraction and admit it is a root cause of poor performance. From there, you can work together to get back the focus on work.

One way to insulate your company from these issues is make sure that you are using pay-for-performance compensation for as many of your employees as possible. Your salespeople should be on straight commission. You should be paying your delivery drivers per stop, etc. Pay for performance is not the whole solution because an underperforming star will still affect your overall numbers. What such a system does is help alert the employee to the reality that their performance isn't as good and that it is affecting the business. A paycheck that is half what it was is an effective wake up for many people. It can give both you and the employee an incentive to work together to return performance to prior levels.

Another lesson I learned is to always be hiring and interviewing prospective employees, especially salespeople. Waiting until you need another great salesperson to go look for one is a serious mistake. It diminishes your chances of hiring a truly great one. It cuts into your sales and your profits. Always be scouting talent and gathering resumes so that you can hire the people you need. It sounds cold, but you have a duty to your current employees to keep your company strong and profitable so that they will have opportunities. Your employees' families also count on you to be a good leader and to make the hard decisions to keep your business healthy.

### 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.

Little Johnny came downstairs crying loudly. His mother asked, "What's the matter now?" "Dad was hanging pictures and hit his thumb with the hammer," cried Johnny through his tears. "That's not so serious," soothed his mother. "I know you're upset, but a big boy like you shouldn't cry at something like that. Why didn't you just laugh?" "I did!" sobbed Johnny.

## Tire law

■Continued from Page B1

goal is to have 100 percent of annually generated scrap tires consumed in end-use markets. The tires targeted by USTMA's unsafe used tire legislation should be scrapped, not put back into service where they put all motorists at risk."

It's important to note that USTMA research shows that more than 30 million used tires are available for sale nationally each year. The legislation being passed in New Jersey, for example, does not ban all used tire sales. It targets used tires that have specific, well-established, unsafe conditions.

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

Unsafe, used tires can be turned into scrap tires – an industry that is seeing remarkable improvement in end use markets as of late.

Furthermore, according to the USTMA, the turnaround in U.S. scrap

tire consumption is something to celebrate. In 1990, only 11 percent of annually generated scrap tires were consumed in beneficial end use markets. The rest went into stockpiles. For many stakeholders, including USTMA, this a priority issue. By 2015, end use markets consumed 87.9 percent of scrap tires generated in the U.S. The top market categories for scrap tires are tire derived fuel, ground rubber and civil engineering applications. The need to expand all economically viable and environmentally sound scrap tire markets remains an imperative.

Tires are a critical safety feature and the only part of the vehicle that touches the road. As Luke explained, USTMA members work continually to improve safety through innovation and technology. This commitment to safety also includes education and advocacy.

"We will continue to work with states to enact common sense legislation that reduces the risk to consumers posed by unsafe used tires," Luke said. "USTMA favors a free-market, shared responsibility system to manage scrap tires. This means that end-of-life tires should go to the highest value market available in a given state or region. Ultimately, USTMA wants to see all end-of-life tires consumed in viable, environmentally and economically sound, end-use markets. Our ongoing advocacy and education efforts with the tire recycling industry are focused on that outcome."

## Crushed car haulers

■Continued from Page B4

Demco/Maurer also offers a line of end-dump trailers with the same reliability and durability as their other products, to add to your fleet when a gondola doesn't fit the bill. Other options include a full line of Circle R side dumps "that can come in handy on the job site. As with golf, one club is not always enough to meet your needs," Schoenfelder joked. He also explained, "Our customers enjoy our dealer network, offering service after the sale, which is not available to those who purchase from a factory direct sales com-

pany. Stock availability is four to six weeks from order to delivery time and if we don't have an item in stock, we can get it for you in a timely fashion. Our clients also appreciate the way our paint shop can match their corporate colors with our two-part poly paint system, which allows their carriers to stand out even more. Demco/Maurer is committed to building the trailer that you need with the durability to take what the industry dishes out, and at a cost to keep you profitable."



### Testimonial



I received your publication by mail. I can confirm I have never seen it before in its hard copy version. I like the layout and it is very informative, in a league of its own in terms of quality information. No wonder it is the only recycling publication quoted on Lumistar's blog. I look forward to upcoming issues.



I have read issues of your publication in the past by accessing digital archives at one of two libraries I am a member of. Your website is also fantastic.

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# ADEM to clean up Red Mountain Park of scrap tires

The Alabama Department of Environmental Management (ADEM) is working to remove thousands of tires and other debris from Red Mountain Park.

Work is expected to continue for several months. To date, clean-up crews have removed 700 tons of trash.

The project is funded by the organization's Scrap Tire Fund. ADEM expects to finish the project in December.

Red Mountain Park Natural Resource Specialist, Rachel Ahrnsen said, "When the last mining companies left in the 1960s, this land was left

mostly unsupervised. Many individuals took advantage of a large, unsupervised piece of land and began to dump truck loads of tires and other refuse here. In decades past, there was little legislation or education on what you should do with scrap tires, contributing to this problem."

The dumping continued for decades, and only stopped when the Park took over management of the land, installing gates and other barriers to dumping.

Thousands of tires have been found at several locations in the park.



Piles of scrap tires have always been a burden on environmental agencies despite efforts to encourage collection and recycling.

PHOTO BY PAUL PRESCOTT | DREAMSTIME

# Licking County, Ohio river cleared

The Licking County Health Department, in partnership with Licking County Soil and Water Conservation District and other local agencies, held the 23rd annual Licking County River Round Up event which was held in September.

This annual river clean-up brings out hundreds of volunteers who pull tires, shopping carts and mountains of trash from 30 miles of rivers and streams. Through this amazing community-based conservation effort, a river system that had all but been abandoned, has seen a beautiful rebirth of aquatic and bird life.

In 2016, over 320 volunteers participated in the Licking County River

Round Up event to clean up trash, metal, tires and recyclables from waterways throughout the county. Nearly 26 miles of waterways were successfully cleaned with volunteers collecting a total of 4,790 pounds of trash and 4,220 pounds of recyclables.

Additional partnering agencies include The Dawes Arboretum, Explore Licking County, Village of Granville, Village of Hebron, City of Heath, Jobs Henderson, Ohio Certified Volunteer Naturalists, Licking County Recycling, Licking Park District, City of Newark Stormwater Utility, Union Township, Village of Utica, and numerous community members.

# Pyrolyx AG: Construction of production plant begins

Pyrolyx AG, a leader in the extraction of carbon black from end-of-life tires, is commencing as planned in the construction of its state-of-the-art recovered carbon black (rCB) plant in Terre Haute, Indiana.

Following its completion, the plant in Terre Haute will be the most advanced of its kind and will produce about 12,900 tons of rCB every year as well as pyrolysis oil and steel. The international Zeppelin Group has planned and will construct the plant and perform overall project management.

The site in Indiana was chosen because of favorable logistics as well as the support of the city of Terre Haute. Once fully operational, the facility will employ 55 full time staff. Following the plant's completion, Pyrolyx will be the

first producer of rCB in the world to have two international production sites. Every year, approximately 4 million used tires will be recycled and the factory will save more than 30,000 tons of CO2 compared to traditional carbon black manufacturing.

Niels Raeder, chief executive officer of the Pyrolyx Group said: "By building its second plant – now in the U.S., the Pyrolyx Group is emphasizing its global expansion plans. The increase in its production capacity will uniquely allow Pyrolyx to meet the growing demand for recovered carbon black. Even before construction begins, we have signed long-term purchase contracts for Pyrolyx rCB. As a result, we can look to the future with a great deal of optimism."

# Illegally dumped tire kills alligator

The Georgia Department of Natural Resources Law Enforcement Division posted on Facebook a reminder about the effects of illegal dumping.

An 11' 9" alligator got stuck as it tried to squeeze through a tire that had

been illegally dumped in a lake at Hamburg State Park in Georgia.

"This is a prime example why our game wardens take litter and dumping so seriously," the post said.

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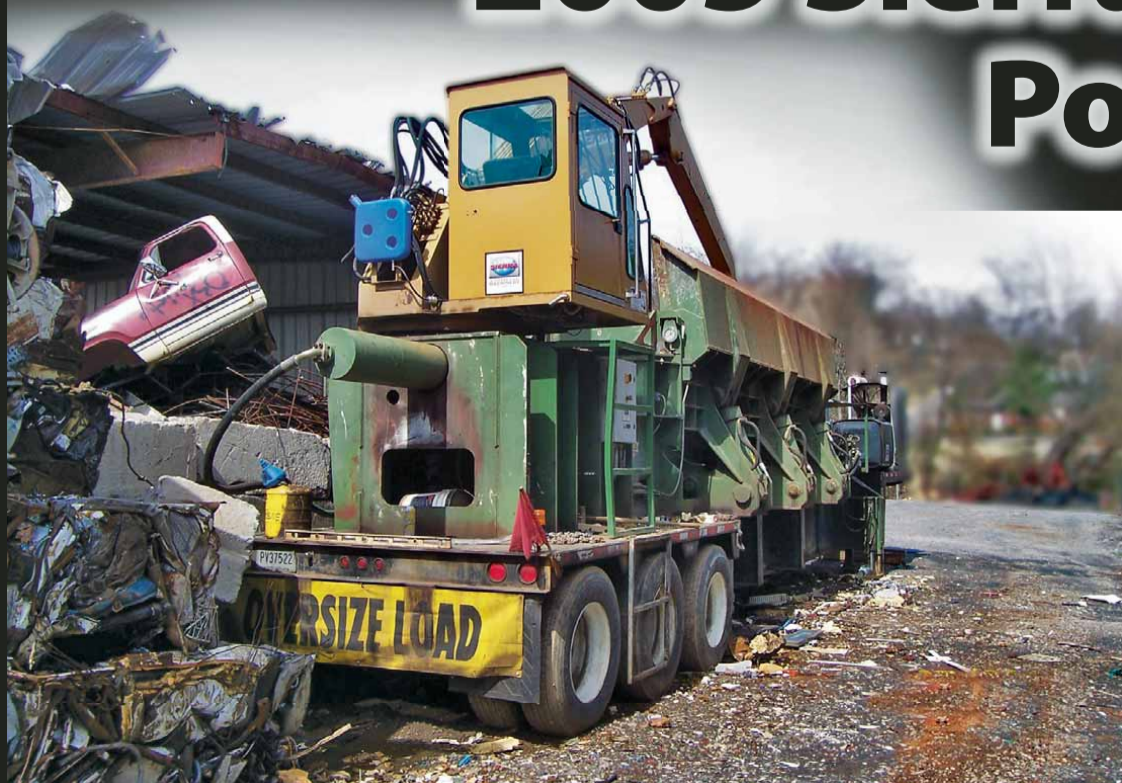
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